

General Plan

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City of Redlands





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CITY OF REDLANDS

GENERAL PLAN

Adopted in October, 1995 (Resolution 5521, GPA # 54)

Subsequently amended as follows:

<u>GPA #</u>	<u>Res/Ord #</u>
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59	Ord 2290
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64	Res 5410
65	Res 5152
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67	Res 5583, 5584, 5585, 5586
68	Res 5590
71	Res 5765
74	Res 5895
73	Res 5906
77	Res 5907
78	Res 5896
80	Res 5962
82	Res 5997
79	Res 6022
84	Res 6068
85	Res 6069
87	Res 6070
88	Res 6077
89	Res 6149
91	Res 6151

Last Update reflects City Council Action on 5 August 2003

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1.0 SETTING AND ORGANIZATION

REDLANDS GENERAL PLAN

1.0 SETTING AND ORGANIZATION OF THE GENERAL PLAN

1.10 Redlands: Past, Present, Future

From citrus boom town to the Victorian good life in California to threatened total absorption by the Southern California metropolis -- Redlands has maintained a strong image in a region and state where sameness is battering the defenses of freestanding towns. The City's site must have been an easy choice for founders Judson and Brown when they laid out the streets in 1881. Views, the railroads, the climate, ample water from the Bear Valley Reservoir and the beauty and profit of citrus brought Easterners with the time and money to create a beautiful city. By the time a catastrophic freeze struck in 1913, Redlands was a city of 20,000 with most of its architectural and cultural environment in place. When the pace of development resumed in the 20s, Redlands' quality image was the attraction.

Today's residents feel strongly about preserving Redlands' character and setting. New projects are debated, mistakes are remembered, and growth initiatives and open space bonds have been approved. During the 1980s, other Inland Empire communities experienced the growth pressures Redlands can expect during the next two decades. The General Plan describes the City its present residents believe should emerge.

1.20 The 1972 General Plan

This General Plan replaces a 1972 General Plan that was prepared at a time when General Plans had far less political and legal stature than they do today. The 1972 Plan sought to protect agriculture from premature encroachment, but did not envision any permanent open space other than parks and flood control areas at buildout (calculated at 160,000 persons). Major General Plan amendments occurred in conjunction with the adoption of the *East Valley Corridor Specific Plan* (1989), which increased employment capacity while reducing residential capacity, by the Southeast Area General Plan amendment (1987) which reduced density in San Timoteo and Live Oak canyons, and by numerous smaller changes.

1.30 Public Participation in the Plan-Making Process

Organized re-thinking of Redlands' future has been underway since 1987. Redlands 2000, a committee of 85 volunteers, conducted a survey (1,856 responses) and held discussions over an eight-month period. The Committee's report makes recommendations spanning the spectrum of local government issues. In 1988 the City conducted a Citizen Viewpoint Survey. The two surveys reached a self-selected 7 to 9 percent of Redlands households.

When work on General Plan revision began, the City Council appointed a 21-member General Plan Citizens Committee charged with making the decisions needed to prepare a revised draft General Plan for public hearings by the Planning Commission and City Council. Committee members (see list following title page) represent all geographic sectors of the City and a diverse spectrum of economic and cultural interests. Liaison members representing the Planning Commission, City Council, and other City commissions participated in meetings, but did not vote on issues. Opportunities for members of the public to address the Committee have been provided at all meetings.

As the Draft General Plan began to take shape, neighborhood meetings were scheduled throughout the City and Planning Area to explain the process and to solicit comment. The neighborhood meetings were well attended, and numerous comments on the proposed Draft General Plan were provided. Many of the citizens' concerns have been incorporated into the policies of the Draft General Plan. In addition to the neighborhood meetings, a number of community organizations requested presentations of the Draft General Plan. Presentations were made to the Redlands Chamber of Commerce, Redlands Kiwanis Club, Rotary Club, Optimist Club, and students at the University of Redlands.

1.40 Nature and Scope of the General Plan

A City's General Plan has been described as its development constitution -- the set of policies within which development regulations and decisions must fit. The General Plan is a statement of the community's vision of its long-term or ultimate physical form and development policies.

State law requires each city and county to adopt and maintain a General Plan. Actions relating to zoning, subdivision approval, housing allocations, and capital improvements must be consistent with the General Plan.

The Redlands General Plan is not simply a compendium of ideas, data and wishes: it consists of a diagram (a drawing that shows arrangement and relationships) and carefully worded policies, accompanied by explanations needed to make the reasons for the policies clear. The Plan has three purposes:

1. To enable the Planning Commission and City Council to reach agreement on long-range development policies;
2. To provide a basis for judging whether specific private development proposals and public projects are in harmony with policies; and
3. To allow other public agencies and private developers to design projects that are consistent with City policies, or to seek changes in those policies through the process of amending the General Plan.

The Plan must be:

- **Long-range:** However imperfect our vision of the future is, almost any development decision has effects lasting more than 20 years. The Redlands General Plan is geared to ultimate development of the Planning Area.
- **Comprehensive:** It must coordinate all major components of the community's physical development. The relationship between land-use intensity and traffic is most obvious.
- **General:** Because it is long-range and comprehensive, the Plan must be general. The Plan's purpose is to serve as a framework for detailed public- and private-development proposals. It establishes requirements for additional planning studies where greater specificity is needed before the City can act on development proposals.

The General Plan is implemented by the decisions of the Planning Commission and City Council and by the zoning and subdivision ordinances, specific plans, redevelopment plans and the City's capital-improvement program.

The zoning ordinance includes detailed use classifications and standards. The zoning map must be consistent with the General Plan map, but it will not be identical to it. Specific Plans also must be consistent with the General Plan.

1.50 Using the General Plan Text and Diagram

The Plan text distinguishes adopted policies from information describing the reasons for a policy. *Guiding Policies* are the City's statements of its goals and philosophy. *Implementing Policies* represent commitment to consistent actions. *Implementing Policies* are as specific as is appropriate given the City's current level of knowledge and consensus on each issue. Adopted policy statements are printed in roman type; explanatory material appears in italics.

The General Plan Diagram (GP Section 4, Figure 4.1) depicts the desired ultimate land use and trafficways network. The Diagram must be used in conjunction with the Plan text. The Land Use Classifications (GP Section 4.0) explain the legend on the Diagram and specify density and intensity ranges for each category. A glossary at the end of this volume defines technical terms.

Where land is subdivided and largely built-out, the Diagram's use designations follow parcel boundaries or natural features.

Text policies may limit the density or intensity of development on a particular site in ways not apparent from the Diagram. For example, General Plan policies protecting natural habitat, or preserving steep slopes, and other policies may prevent designated maximum density or intensity from being reached on some parcels. Regardless, the City has no obligation to approve projects at the maximum General Plan density or intensity. Residential density ranges are intended to bracket several zoning districts to be mapped at different locations within a General Plan classification. General Plan land use designations are applied to built-up areas that have been developed over time under changing regulations with a variety of densities and intensities. Consequently, the General Plan recognizes that nonconforming uses may already exist within a given land use designation and does not require their removal.

Commercial and industrial intensity standards in the General Plan Land Use Classifications represent theoretical maximums that, when combined with buildout assumptions, form a basis for determining traffic capacity and utilities service requirements. Zoning regulations that achieve the same result may use different measures.

1.60 Organization of the General Plan

California's General Plan Law is a product of the incremental nature of the legislative process. If literally followed, it creates confusion as to where some topics should be located and some duplication among the seven mandatory Plan elements. Fortunately, Government Code 65301(a) provides that a General Plan may be adopted in any format deemed appropriate by the legislative body as long as all topics are covered. The exception is the Housing Element which is required by State guidelines to contain extensive mandatory data and analysis as well as a five-year plan for meeting housing goals and objectives.

The content of the seven State-mandated elements (land use, circulation, open space, housing, conservation, safety and noise) as well as the optional elements of the Redlands General Plan is summarized below. Optional elements are noted in parentheses:

- (2) **Growth Management Element** (Optional) incorporates policies for the amount and rate of growth and the timing of public improvements.
- (3) **City Design and Preservation Element** (Optional) establishes policies for visual design at the citywide scale and policies for preservation of architectural resources.
- (4) **Land Use Element** establishes land use classifications, sets densities and intensities for development and creates a pattern of land uses (including open space) illustrated by the General Plan Diagram.
- (5) **Circulation Element** contains policies for freeways, arterials, collector streets, trails, bikeways, transit, transportation systems management, railroads, Redlands Airport, and utility corridors. A system of trafficways is illustrated on the General Plan Diagram.

- (6) **Housing Element Summary** is an excerpt from the Housing Element, published separately, that includes all adopted policies designed to meet five-year housing needs for all income levels. The complete Housing Element also includes extensive data and analysis required by State law.
- (7) **Open Space and Conservation Element** includes policies for management of four categories of open space lands, including parks, and prescribes policies for conservation of both natural and cultural resources. Parks and open space to be preserved are illustrated on the General Plan Diagram.
- (8) **Health and Safety Element** (Optional Air Quality Element) consists of policies for water quality preservation and protection from fire hazards, drainage and flooding, seismic, geologic, and soils hazards, wind hazards, magnetic fields, airport aviation safety, and emergency management. Air quality policies are from a model Air Quality Element prepared for San Bernardino County cities.
- (9) **Noise Element** projects future traffic noise and sets policies for mitigation of noise from all sources.
- (10) **Human Services Element** (Optional) includes policies for senior services, youth services, and health services.
- (11) **Economic Development Element** (Optional) provides a framework to develop and adopt policies and actions which affect the City's economy.

1.70 Keeping the General Plan Current

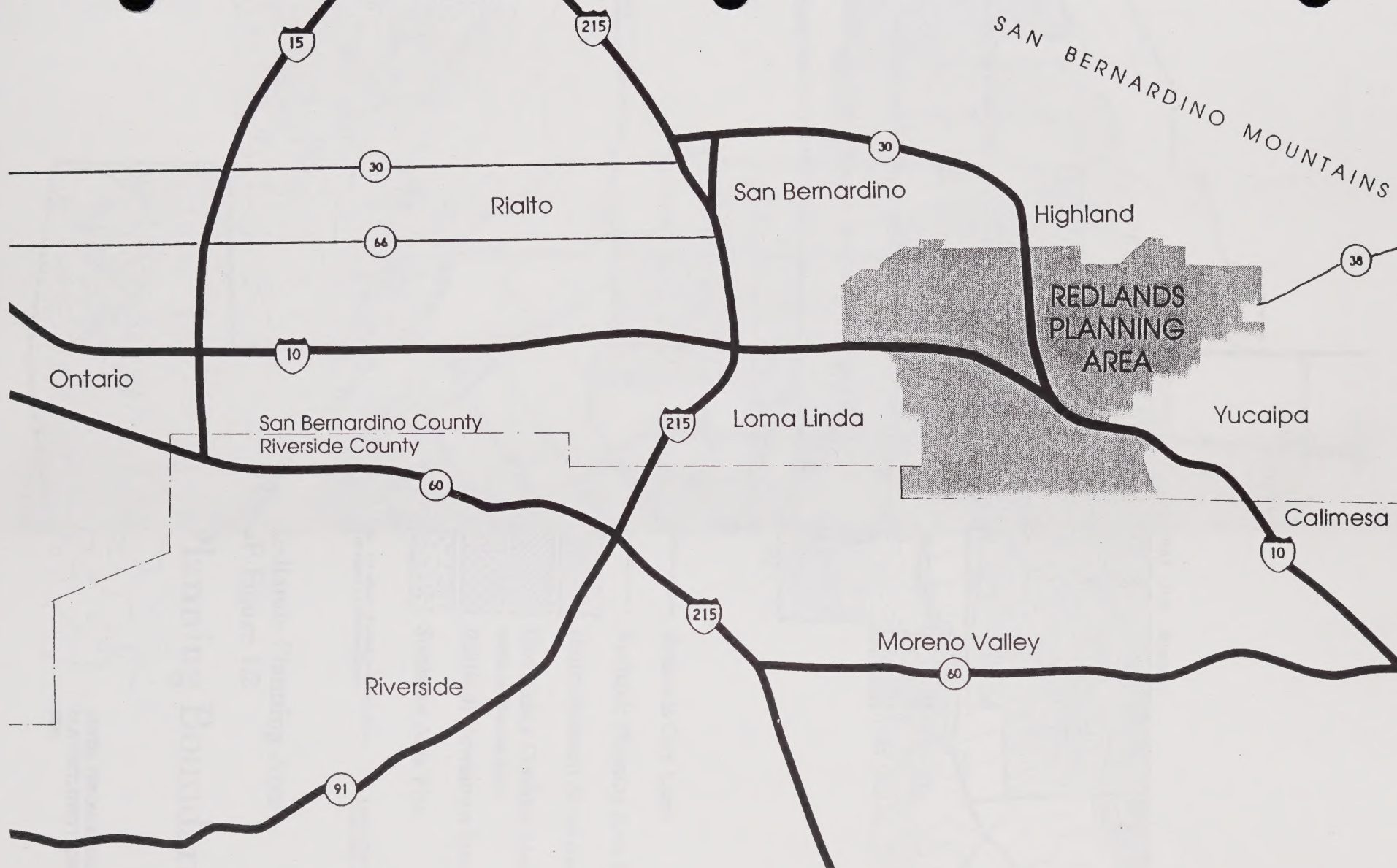
All public works projects, subdivision map approvals, and zoning text or map changes and Specific Plans must be consistent with the General Plan. From time to time, changes in policy as well as unforeseen opportunities or needs will require amendment of the General Plan. In an effort to prevent casual or automatic General Plan amendments, State law allows each mandatory element to be amended not more than four times per year, although there is no limit to the number of changes made during each amendment. Most requests are likely to be for map changes to the General Plan Diagram, but each must be screened to determine effects on text policies. An example would be the effect of a change of use on the General Plan's target housing mix.

1.80 Planning Context

Planning Area/Planning Sectors

Redlands is a city of 66,301 (1994) at the head of the San Bernardino Valley, 60 miles east of Los Angeles. Its Planning Area is bounded on the north by the Santa Ana Wash, the City of Highland, and the San Bernardino Mountains, on the east by the Crafton Hills and the City of Yucaipa, on the south by the Riverside County boundary and The Badlands, and on the west by the City of Loma Linda and the City of San Bernardino (San Bernardino International Airport). GP Figure 1.1 shows the regional location of the Redlands Planning Area.

Consistent with State law (Govt. Code 65301 (a)) Redlands has established a Planning Area boundary encompassing 52 square miles including territory outside its boundaries "which in its judgment bears relation to its planning." Within this boundary is the Sphere of Influence (SOI) defined as the ultimate service area established by the San Bernardino County Local Agency Formation Commission (LAFCO). The SOI could be expanded to include the entire Planning Area. Planning boundaries are shown on GP Figure 1.2.



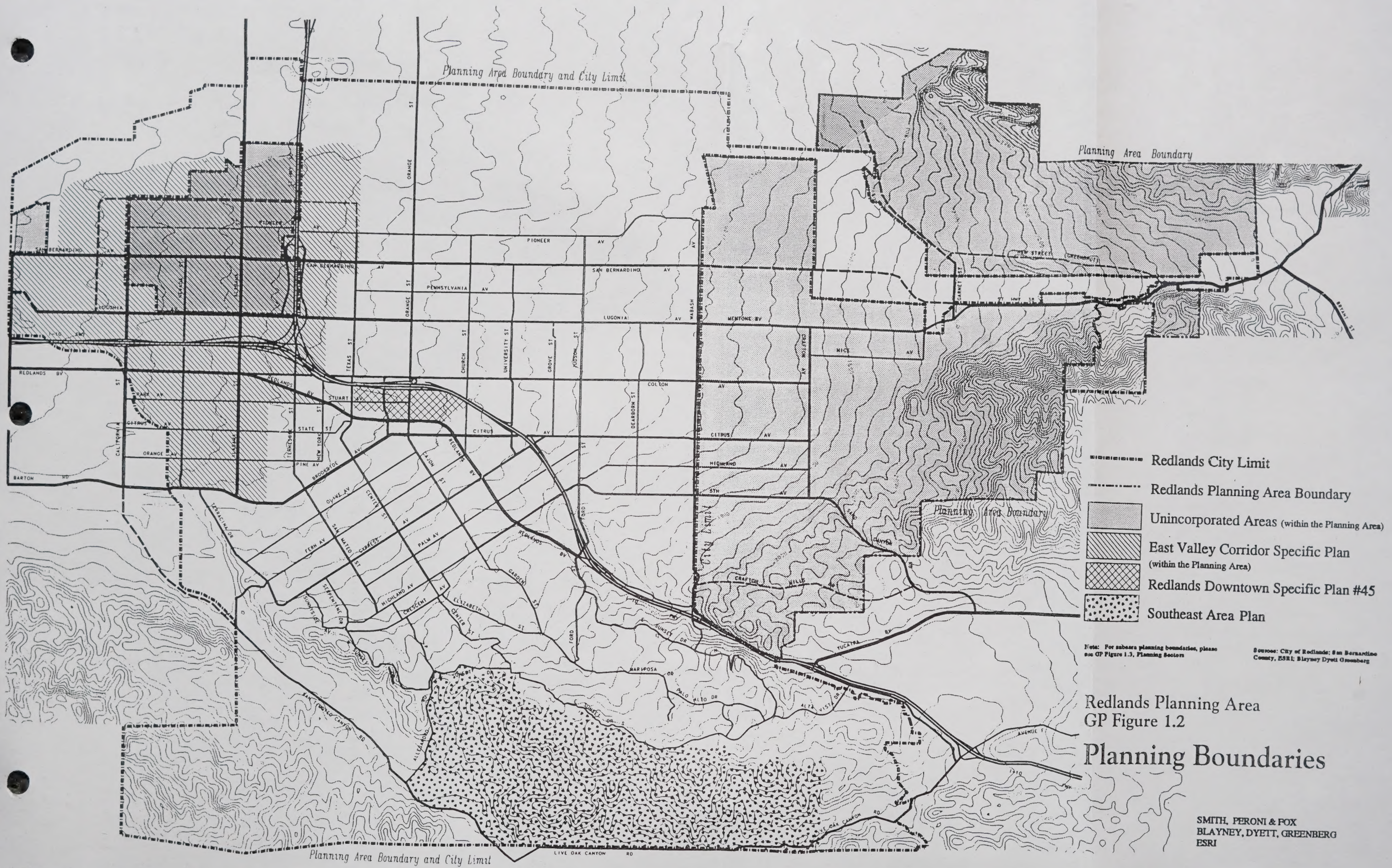
Redlands Planning Area
GP Figure 1.1

Not to Scale

Sources: Smith, Peroni & Fox

Regional Location

SMITH, PERONI & FOX



The City's authority to regulate development is limited to the corporate limits, but San Bernardino County General Plan policies commit the County to support annexation of land designated for urban development.

The Planning Area is divided in seven planning sectors to facilitate description. (See GP Figure 1.3 Planning Sectors and Traffic Analysis Zones.) Planning sectors are aggregations of the 73 Traffic Analysis Zones (TAZs) which are the data units used for land use and traffic analysis.

General Plans of Adjoining Jurisdictions

The plans of agencies that set development policy adjoining the Redlands Planning Area or within it have obvious effects on the Redlands General Plan and are described below.

San Bernardino County. As revised in 1993, the County plan supports City policies within the Redlands Sphere of Influence, although entitled but unbuilt projects are inconsistent with the Redlands General Plan. The County's General Plan states that consideration will be given to designate sphere of influence areas on the County's land use maps as Special Planning areas. Also, efforts will be made to utilize City standards for development in these areas. The County plan, which formerly would have held a population of more than 50,000 in the Mentone and Crafton sectors now includes substantial acres at rural living densities of 5 and 10 acres per housing unit. The circulation element, which has not been revised, designates Crafton Avenue as a major arterial extending to the Greenspot Road and Garnet Street as a minor arterial extended south along the base of the Crafton Hills.

City of San Bernardino. West of Mountain View Avenue the General Plan adopted in June 1989 calls for residential development at 14 units per acre adjoining I-10 Freeway, nine per acre along most of the Mountain View frontage, and heavy industry along the Santa Ana River. The area is highly developed.

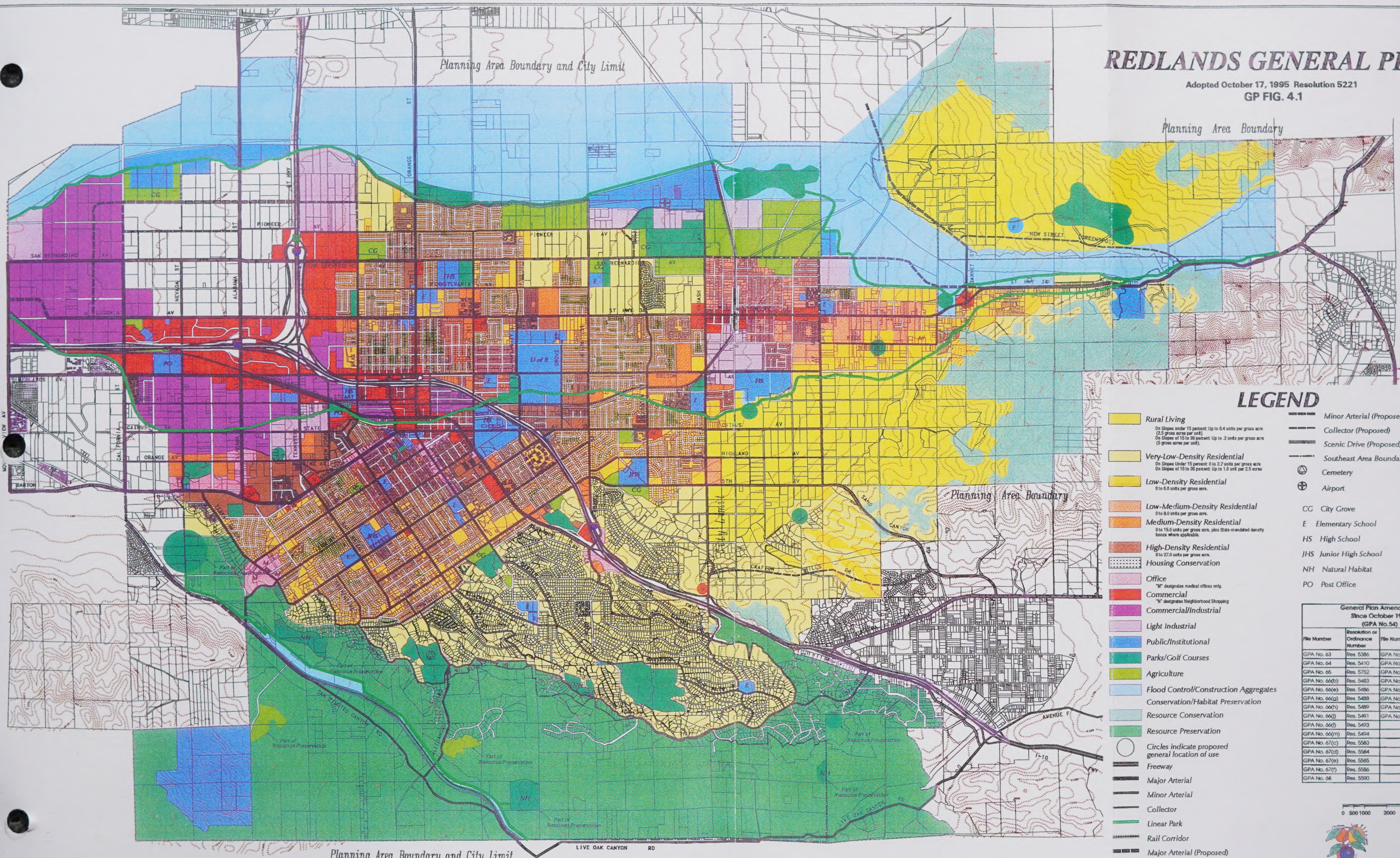
San Bernardino International Airport. The property is currently being marketed for airport and industrial re-use by the Inland Valley Development Agency which collects property tax increment from an area that includes the unincorporated 'donut hole' in the East Valley Corridor portion of the Redlands Planning Area.

City of Highland. The Santa Ana River Wash separates Redlands and Highland, which incorporated in 1987. Significant pressure to develop mineral extraction operations in the wash, as well as potential development to build into the flood plain, may be a source of conflict with the City of Redlands. Both cities should work closely with each other and the County Flood Control and Water Conservation District to preserve natural resources and ensure public safety. The Circulation Element of its first General Plan proposes eastward extension of Base Line Street which would turn south across the Santa Ana Wash to connect to Crafton Avenue as proposed by the San Bernardino County Circulation Element.

City of Yucaipa. The City of Yucaipa adopted a General Plan in September of 1992. Of particular interest to the City of Redlands is the Planned Development (PD) land use designation for the area south of the I 10 freeway and east of the Live Oak Canyon Road, which Yucaipa has zoned for a master planned development which may mix residential and commercial uses. Adjacent to the City of Redlands, in the Crafton Hills area, Yucaipa has approved a 59 lot PD fronting Bryant Street and Mill Creek Road and has dedicated open space to conform with the Crafton Hills Conservancy proposal. The City also adopted a Hillside Slope Ordinance in July of 1991 which restricts development on properties with an average hillside slope of 15% or greater. Crafton Hills Drive, a limited access collector, is a proposed link between Redlands and Yucaipa. Within Yucaipa, recorded Tract 12222 proposes a connection of Crafton Hills Drive with Sand Canyon Road. The City of Redlands is currently studying Wabash to locate the western terminus of Crafton Hills Drive.

REDLANDS GENERAL PLAN

Adopted October 17, 1995 Resolution 5221
GP FIG. 4.1



LEGEND

- Rural Living**
On Slopes under 15 percent: Up to 0.4 units per gross acre (2.5 gross acres per unit)
On Slopes of 15 to 30 percent: Up to .2 units per gross acre (5 gross acres per unit)
- Very-Low-Density Residential**
On Slopes under 15 percent: 0 to 2.7 units per gross acre
On Slopes of 15 to 30 percent: Up to 1.0 unit per 2.5 acres
- Low-Density Residential**
0 to 8.0 units per gross acre
- Low-Medium-Density Residential**
0 to 8.0 units per gross acre
- Medium-Density Residential**
0 to 15.0 units per gross acre, plus State-mandated density bonus where applicable
- High-Density Residential**
0 to 27.0 units per gross acre
- Housing Conservation**
- Office**
"M" designates medical offices only
- Commercial**
"N" designates Neighborhood Shopping
- Commercial/Industrial**
- Light Industrial**
- Public/Institutional**
- Parks/Golf Courses**
- Agriculture**
- Flood Control/Construction Aggregates**
- Conservation/Habitat Preservation**
- Resource Conservation**
- Resource Preservation**

- Circles indicate proposed general location of use
- Freeway**
- Major Arterial**
- Minor Arterial**
- Collector**
- Linear Park**
- Rail Corridor**
- Major Arterial (Proposed)**

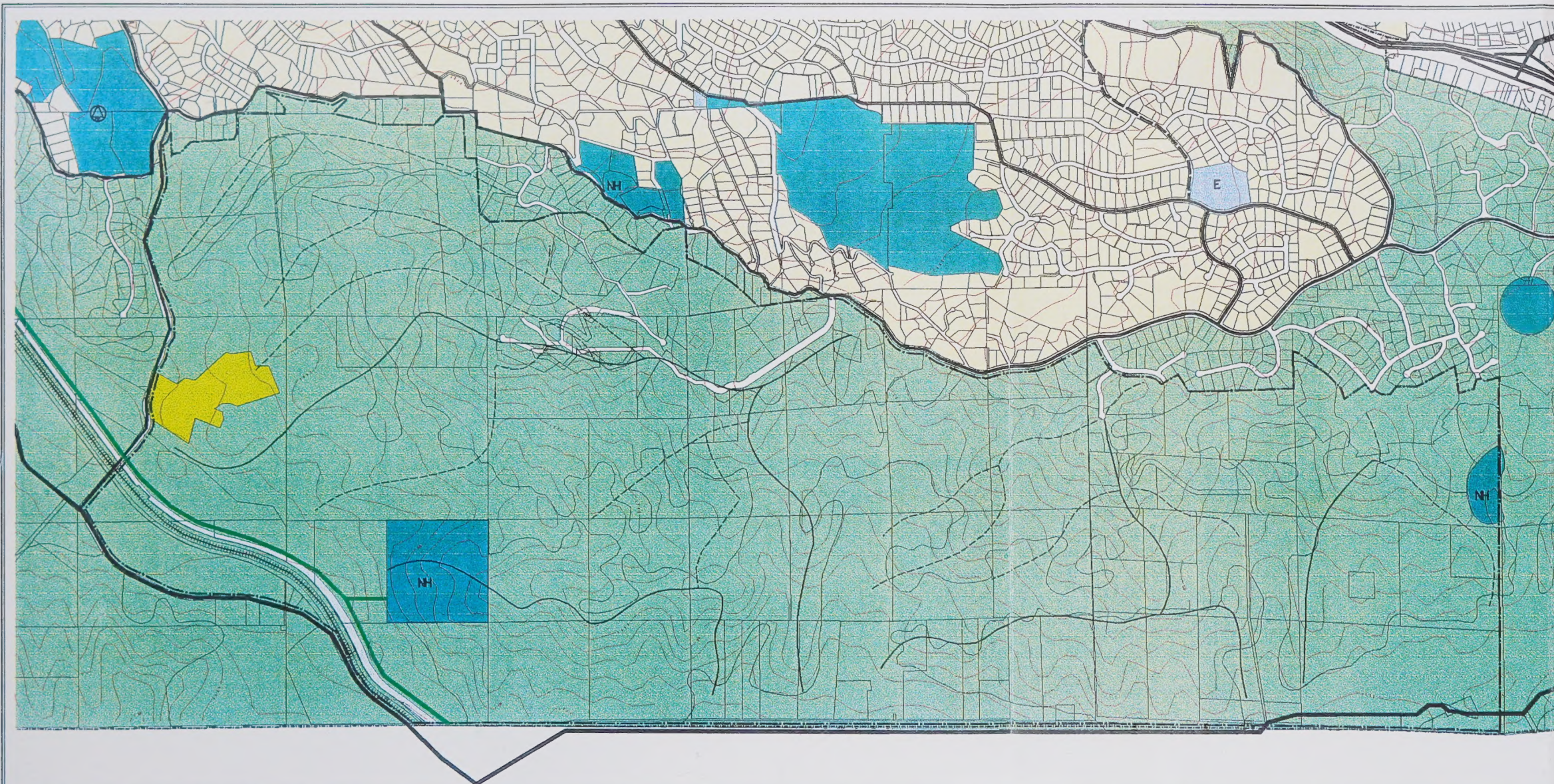
- Minor Arterial (Proposed)**
- Collector (Proposed)**
- Scenic Drive (Proposed)**
- Southeast Area Boundary**
- Cemetery**
- Airport**
- CG City Grove**
- E Elementary School**
- HS High School**
- JHS Junior High School**
- NH Natural Habitat**
- PO Post Office**

General Plan Amendments Since October 1995 (GPA No. 54)			
File Number	Resolution or Ordinance Number	File Number	Resolution or Ordinance Number
GPA No. 63	Res. 5386	GPA No. 71	Res. 5795
GPA No. 64	Res. 5410	GPA No. 73	Res. 5906
GPA No. 65	Res. 5752	GPA No. 74	Res. 5895
GPA No. 66(b)	Res. 5483	GPA No. 77	Res. 5907
GPA No. 66(e)	Res. 5486	GPA No. 78	Res. 5896
GPA No. 66(g)	Res. 5488	GPA No. 79	Res. 6022
GPA No. 66(h)	Res. 5489	GPA No. 80	Res. 5952
GPA No. 66(j)	Res. 5491	GPA No. 82	Res. 5997
GPA No. 66(i)	Res. 5493		
GPA No. 66(m)	Res. 5494		
GPA No. 67(c)	Res. 5583		
GPA No. 67(d)	Res. 5584		
GPA No. 67(e)	Res. 5585		
GPA No. 67(f)	Res. 5586		
GPA No. 68	Res. 5590		

0 500 1000 2000 3000 4000 feet



Map Generated: July 28, 2011



CITY OF REDLANDS: SOUTHEAST AREA
GENERAL PLAN MAP - Figure 4.2

- Very-Low-Density Residential
On Slopes Under 65 percent: 0 to 2.7 units per gross acre
On Slopes of 65 to 90 percent: Up to 10 units per 2.5 acres
- Public/Institutional
- Parks/Golf Courses
- Agriculture
- Flood Control/Construction Aggregates
Conservation/Habitat Preservation
- Resource Conservation
- Resource Preservation

- Circles indicate proposed general location of use
- Freeway
- Major Arterial
- Minor Arterial
- Collector
- Linear Park
- Rail Corridor
- Major Arterial (Proposed)
- Minor Arterial (Proposed)
- Collector (Proposed)
- Scenic Drive (Proposed)
- Southeast Area Boundary
- Signature Ridges
- Major Ridges
- Cemetery

- CG City Grove
- E Elementary School
- HS High School
- JHS Junior High School
- NH Natural Habitat
- PO Post Office



0 250 500 1000 1500 2000 feet

City of Loma Linda. Redlands' westside neighbor proposes a mixed use, Hotel/Retail development north of Barton Road and residential development to the south with single-family detached subdivision densities declining as the slope increases. A firm boundary between the Redlands and Loma Linda spheres of influence was established in 1990. Loma Linda's General Plan is presently under revision and the use of about 600 acres adjoining Redlands has not been designated at this time. Currently, a residential designation has been used for development proposals for this area at 2.7 units per acre. However, Loma Linda is investigating a residential specific plan which may consider up to 5-6 units per acre. This may have potential conflict with the Redlands Land Use Plan. Another possible dispute could arise over the alignment of San Timoteo Canyon Road. SANBAG has proposed five alternatives for connection from the East Valley Corridor to Moreno Valley area. Both jurisdictions will need to work with the regional agency to resolve alignment issues regarding this roadway.

Riverside County. The Riverside County line is an arbitrary boundary to the Planning Area, running a few feet either side of Live Oak Canyon Road for several miles east of San Timoteo Canyon Road. Oak Valley, a 10-square-mile "new town" approved in 1988 by Riverside County extending along the County line and Beaumont, would have about 45,000 residents and 34,000 jobs if built-out. This project has been experiencing financial difficulties due to the current economic slowdown. A golf course, but no residential units, has been built as of 1995. Riverside County's Multiple Species Habitat Conservation Plan is an unadopted draft plan still under revision and downsizing. This plan could affect areas to the west of Oak Valley adjoining the Redlands Planning Area with possible preservation of the Badlands.

City of Moreno Valley. The City of Moreno Valley is located in the County of Riverside and may extend its sphere of influence and/or city limits to adjoin the City of Redlands sometime in the future. The proposed designation may be hillside residential or rural residential which can have densities ranging from one-half acre to ten acres.

City of Calimesa. The City of Calimesa is located in the County of Riverside and has city limits and sphere of influence areas that adjoin the City of Redlands to the south of Live Oak Canyon Road. Calimesa's General Plan, adopted in 1994, designates this area as a natural resource to the community and region. Development within the natural resource categories is limited to protect and to retain the natural environment. The areas adjoining the Redlands Planning Area are designated Open Space Residential (OSR) and Open Space (OS). These designations are generally consistent with land uses proposed for Live Oak Canyon.

Southern California Association of Governments (SCAG). The Regional Comprehensive Plan and Guide (1989) serves as the basis for housing allocations that must be incorporated in the Redlands Housing Element. The Regional Mobility Element, incorporated into the Regional Comprehensive Plan, affects funding for major transportation projects which are important to Redlands. SCAG calls for a 3.4 percent average annual increase in housing in the East San Bernardino Valley between 1990 and 2010, but projects a 4.1 percent average annual increase in employment.

SCAG requires local agencies to meet the requirements of several regional plans aimed at reducing impacts on various issues, including but not limited to, growth (Jobs/Housing/Population), transportation, air quality, energy, water resources, and waste management. These are briefly described below.

1989 Growth Management Plan

The purpose of the Growth Management Plan (GMP) is to encourage local land use actions which could ultimately lead to development of an urban form that will help minimize development costs, save natural resources, and enhance quality of life in the region. Goals of the GMP aim at enabling individuals to spend less income on housing, enable firms to be more competitive, minimize public and private development costs, preserve open space and natural resources, attain mobility and clean air quality, avoid economic and social polarization, and accommodate a diversity of life styles. The GMP is concerned with achieving a balance

between the availability of jobs and the provision of housing on a sub-regional basis. The GMP classifies the San Bernardino Valley area as a jobs poor/housing rich region. Consistency with this plan is discussed in the Housing Element.

Regional Mobility Element (RME)

This element is the principal transportation policy, strategy and objective statement of SCAG. It proposes a comprehensive strategy for achieving mobility and air quality mandates. The RME lists the planned improvement to transportation facilities that the County Transportation Commission, the state, and other agencies have committed to fund over the next twenty years to provide better mobility of people and goods. In terms of impacts resulting from the Redlands General Plan update, the relevant portions of the RME state that:

- adequate capacity must exist in the subregion transportation network to absorb said development,
- that funds must be generated to pay for required improvements, and
- that all measures must be taken to reduce person trips, vehicle trips and peak hour traffic.

The RME is further discussed in the Traffic Technical Appendix of the General Plan Master Environmental Assessment.

Regional Housing Needs Assessment (RHNA)

The Department of Housing and Urban Community Development (HCD) is required to provide SCAG with their determinations of existing and projected housing needs by economic group. These determinations identify the SCAG region's share of the statewide need for housing and are intended for use in developing a new regional housing needs plan. Currently, the State has suspended the mandate to prepare regional housing needs plans and contends that SCAG may wish to prepare a 1995 regional housing needs plan. In response to this suspension, SCAG has used the same projections in 1989 and extended the time-frame of five years to the year 1996. Consistency with current RHNA numbers is discussed in the Housing Element. When HCD terminates the suspension, SCAG will review their regional housing stock and update their needs accordingly.

1989 Hazardous Waste Plan

The need for development of county and regional plans was triggered by state and federal laws that mandated the phase-out of landfill disposal of untreated hazardous wastes by the 1990's. The Hazardous Waste Plan of 1989 was prepared under the direction of the Southern California Hazardous Waste Management Authority (SCHWMA). This plan is designed to assist the region's counties and cities, the regional councils of government, and the state, in their individual efforts to plan for current and future hazardous waste management requirements. The plan facilitates the locating of facilities needed to manage hazardous waste generated by the member jurisdictions and promotes hazardous waste disposal sites in industrial areas where such waste is generated. Consistency with this plan is discussed in Section 7.24, Waste Management and Recycling.

1989 Air Quality Plan

Air quality impacts in Southern California have been a concern due to the continued degradation of clean air. This plan identifies transportation, land use and energy conservation measures aimed at reducing air pollution and conserving the environment. A determination of the project's consistency with AQMP is based on whether the proposed project meets conformity criteria including whether the:

- project improves the region's jobs/housing balance,
- project demonstrates that vehicle trips and vehicle miles generated have been reduced to the greatest extent feasible, and
- EIR demonstrates that the project will not have a long-term negative impact on regional air quality.

The proposed project, as mitigated, is deemed consistent with the AQMP in that it is not defined by the AQMP as a significant project.

1989 California Integrated Waste Management Act (AB 939)

Assembly Bill 939 (California Integrated Waste Management Act) was passed by the California Legislature in 1989 to address the solid waste issue. As initially approved, this act requires local governments to prepare comprehensive plans to reduce the amount of solid waste generated in their jurisdictions and disposed of in all landfill or other means by 25 and 50 percent by the years 1995 and 2000, respectively. This act addresses issues associated with meeting solid waste management goals in Southern California. Various regulatory changes have occurred since that time amending the requirements of the initial Bill. Consistency with this plan is discussed in Section 7.24, Waste Management and Recycling and EIR Section 16.8, Waste Management.

1.90 Themes of the General Plan

The General Plan includes a city design and more than 100 policies that elaborate six broad themes:

A Freestanding City. City limits are all but invisible in most of the Southern California Metropolis. Redlands is one of the few cities that still has a chance to maintain highly perceptible edges. The Santa Ana Wash on the north, Crafton Hills on the east, and Live Oak and San Timoteo canyons on the south. The west edge is not so clearly defined. Its continued visibility will depend largely on preservation of citrus groves at the most prominent locations.

Citrus Heritage. Maintaining citrus groves within the Planning Area as an aesthetic asset to the City and a reminder of Redland's beginnings as a major citrus producer is another one of the Plan's goals.

Small Town Feeling. Always number one in opinion surveys of communities in urban California, this trait is taken to mean uncrowded, friendly, small scale, and with a strong presence of nature. The General Plan provides for two communities. The East Valley Corridor will be handsome, but clearly not small town. South of Interstate 10 at Orange Street, a downtown scaled to three stories maximum, bordered by historic residential neighborhoods and a classic small university campus create a different world.

Sense of History. Landmark buildings and modest bungalow neighborhoods, the Zanja, and citrus groves are anchors that pull against the constant demand to declare everything old "obsolete." The Plan offers continuity with the past as a major ingredient of Redlands' spirit.

Quality in North and South. As in many cities, public and private amenities have not been evenly distributed in Redlands. The goal of this General Plan is to evenly distribute amenities throughout the City.

Revenues to Support Facilities and Services. Themes that lift the spirit will prevail only if the funds to operate a quality city are available. From the Smiley brothers' time to the present, Redlands donors and taxpayers have been willing to pay for quality, and new development must be asked to contribute a fair share toward maintaining the tradition. Jobs in the East Valley Corridor are expected to enhance both the City's fiscal health and the incomes of Redlands' residents.

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1A.0 PRINCIPLES OF MANAGED DEVELOPMENT
REDLANDS GENERAL PLAN

1A.0 PRINCIPLES OF MANAGED DEVELOPMENT

1A.10 PRINCIPLE ONE - The cost of infrastructure required to mitigate the effects of new development shall be paid by that new development.

(a) Development Fee Policy - In accord with the provisions of California Government Code Sections 66000 et seq., all development projects as defined therein shall be required to pay development fees to cover 100% of their pro rata share of the cost of any public infrastructure, facilities or services, including without limitation police and fire services, necessitated as a result of such development. The City Council shall set and determine development fees sufficient to cover 100% of the estimated cost of such public infrastructure, facilities and services based on appropriate cost-benefit analyses as required by the provisions of California law.

(b) Socio-Economic Cost/Benefit Study and Findings Required - Every development project proposal requiring a General Plan Amendment, Zoning Amendment, Subdivision Map, Specific Plan, Pre-Annexation Agreement for Outside City Utility Connections for non-contiguous properties, or for projects involving structures larger than 5,000 square feet, Conditional Use Permit approval, shall submit a socio-economic analysis and cost/benefit study, which shall also be included in all environmental documents submitted to the extent permitted by law, identifying the source of funding for necessary public infrastructure and reflecting the effect of such development on the City, as part of the application process. The City Council shall publish notice of and hold at least one public hearing at which the public may appear and be heard to consider the socio-economic cost/benefit study. Approval of the development project shall only occur if the socio-economic study finds and determines to the satisfaction of the City Council that the development project 1) will not create unmitigated physical blight within the City or overburden public services, including without limitation the sufficiency of police and fire protection, and 2) the benefit of the development project to the City outweighs any direct cost to the City that may result. The City Council may, however, approve a development project for which the socio-economic study fails to make the required findings or determinations if the City Council finds and determines upon a 4/5ths vote of its total authorized membership that the benefits to the City from the development project outweigh the negative socio-economic effects that may result.

(c) Impacts of New Development on Public Schools Shall be Mitigated - A mandatory component of the socio-economic cost/benefit studies shall be an analysis of the effect of the proposed development on public schools facilities and resources, and shall include proposed measures to mitigate any identified adverse impacts on school facilities to the greatest extent permitted under California law.

(d) In addition to those development projects listed in subsection (b) above, all other development projects exceeding 5,000 square feet and subject to a discretionary permit shall submit a socio-economic analysis and cost benefit study, which shall be included in all environmental documents to the extent permitted by law as part of the application process. The provisions of this section shall not apply to any new single family dwelling unit.

(e) For purposes of this section, the definitions of "projects involving structures larger than 5,000 square feet" shall be as follows:

- (1) The area calculation shall include any building or structure plus any outdoor use as shown on a site plan. The area calculation shall not include the area for required parking.
- (2) The area calculation shall be the cumulative total area of the described use. (Examples: A 3,000 square foot office building is expanded by 2,500 square feet for a total of 5,500 square feet. A 4,000 square foot nursery structure is expanded by 500 square feet plus outdoor storage of 1,000 square feet for a total of 5,500 square feet.)

1A.20 PRINCIPLE TWO - Development within the planning area and sphere of influence of the City of Redlands shall conform to development standards within the City.

(a) **Development Agreements** - All development agreements entered into by the City and developers pursuant to California Government Code Sections 65864 et seq. after the Effective Date of this initiative measure as defined in Section 3 hereof, shall conform to the policies contained in the Redlands General Plan.

(b) **Extension of Public Utilities Outside the City Limits** - No extension of City provided utility services to areas outside the City limits shall occur until such areas are properly annexed to the City, except that utility services may be extended to areas outside the City limits without prior annexation if all of the following conditions are met:

1. The area to be served is not contiguous to the City of Redlands; and,
2. The City and the land owner have entered into a properly recorded and binding pre-annexation agreement establishing covenants running with the land that assure full compliance with all development standards of the City of Redlands, payment of all capital improvement and other development fees which would be applicable to the property if it were within the City limits at the time of extension of such services, and immediate processing of annexation to the City at the City's request; and,
3. The land owner agrees as a condition of extension of utility facilities to serve the proposed development to pay the full cost of such extension of such utility facilities.

1A.30 PRINCIPLE THREE - Land use classifications set forth in the Redlands General Plan provide for an appropriate range of densities for residential development and intensity of commercial and industrial development in the City of Redlands.

(a) **Number of Land Use Classifications and Density Standards Shall Not Be Increased** - The density standards set forth in Paragraph 4.40, Residential Land Use Classifications, of Section 4.0, Land Use Element, of the Redlands General Plan shall not be increased, and no new residential land use classification shall be added, without a vote of the people.

(b) **Prohibition on Transfers of Density** - In order to assure that development occurs in a rational way, no transfer of residential development rights from lands other than those designated for single family residential shall be permitted, and then such transfers of single family residential density shall only be permitted to create or preserve agricultural, open space, school or park uses.

1A.40 PRINCIPLE FOUR - Agricultural uses of land are important to the culture, economy and stability of the City of Redlands and shall be preserved to the greatest extent possible consistent with the will of the people as expressed in Proposition R and Measure N, and consistent with the policies of the State of California set forth in Government Code Section 51220.

1A.50 PRINCIPLE FIVE - Preservation of San Timoteo Canyon as a water conservation, recreational, equestrian and wildlife refuge resource for residents of the City of Redlands is essential to the health, safety and general welfare of the community. Development in this area shall only occur in a manner that preserves the area in as natural a state as possible, whether such development is for residential, commercial or flood control purposes.

1A.60 PRINCIPLE SIX - Limitations on traffic levels of service and use of designated roadways, restrictions on permanent outdoor advertising signs and the proliferation of billboards, imposition of reasonable noise standards in residential areas and control of slope densities are essential to managing growth within the City by preventing undue urbanization and its attendant urban blight, the degradation of public services and the over-intensive development of land.

(a) Levels of Traffic Service throughout the City Shall Be Maintained - To assure the adequacy of various public services and to prevent degradation of the quality of life experienced by the citizens of Redlands, all new development projects shall assure by appropriate mitigation measures that, at a minimum, traffic levels of service are maintained at a minimum of LOS C throughout the City, except where the current level of service is lower than LOS C, or as provided in Section 5.20 of the Redlands General Plan where a more intense LOS is specifically permitted. In any location where the level of service is below LOS C at the time an application for a development project is submitted, mitigation measures shall be imposed on that development project to assure, at a minimum, that the level of traffic service is maintained at levels of service that are no worse than those existing at the time an application for development is filed, except as provided in Section 5.20b.

(b) Collector and Local Street Standards Shall be Maintained - No development project shall be approved which will generate traffic volume on residential collector streets or local residential streets in excess of the standards set forth in the Redlands General Plan at Sections 5.32a and 5.32b. Roadways shall be designed and designated for use in accord with the standards set forth in GP Figure 5.3 of the Redlands General Plan.

(c) Circulation Patterns Shall Protect Residential Neighborhoods from Increased Traffic Congestion Traffic circulation patterns shall be established and maintained within the City in a manner that protects the character of residential neighborhoods as set forth at Sections 5.30i, 5.30j and 5.30k of the Redlands General Plan. Major infrastructure improvements within the City designed to accommodate regional traffic needs shall be designed, constructed and financed in a manner which discourages increased traffic flows through residential neighborhoods, encourages traffic flows to existing freeway systems and makes prudent use of federal and local taxpayer dollars. The City Council shall coordinate with the San Bernardino Association of Governments (SANBAG), the Inland Valley Development Authority (IVDA) and the City of San Bernardino with regard to all Santa Ana river crossings, except the Orange Street crossing, to assure the development of California Street/Mountain View Avenue as a major arterial providing access to the San Bernardino International Airport.

(d) Designated Scenic Highways within the City Shall be Maintained - Where improvement of any scenic or historic drive, highway or roadway is required, the City shall take all action authorized by California law to ensure that those roadways retain the characteristics which justify their designation as scenic or historic roadways, including without limitation, capacity restrictions.

(e) Permanent Outdoor Commercial Signs Shall Be Limited in Size - To accommodate the need for permanent outdoor commercial signs in a manner that provides the least intrusion on the community and the least risk of visual blight, no permanent outdoor commercial sign shall be approved that exceeds 120 square feet in size except by variance and/or conditional use permit approved by a four-fifths (4/5) vote of then entire authorized membership of the City Council. No reader boards or billboards shall be permitted.

(f) Noise Standards in Residential Areas Shall Be Established to Protect Residential Use of that Land Among the most damaging aspects of high density residential development is a degradation of residential noise standards. Accordingly, noise standards must be stringent enough to assure residents reasonable quietude in their homes.

(g) Slope Density Limitations Shall Be Maintained - To preserve the hillside vistas and character of the City of Redlands, no development project shall be approved in the Hillside Overlay areas that is inconsistent with the slope density standards set forth in Section 4.42m of the Redlands General Plan.

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2.0 GROWTH MANAGEMENT ELEMENT

REDLANDS GENERAL PLAN

Source: Southern California Association of Governments' Regional Comprehensive Plan and Guide, 1994; Department of Finance, California Annual Population and Housing Data, Demographic Research Unit, January 1994.

Overall, the City of Redlands will continue to accommodate its population by providing sufficient housing and employment opportunities within the Planning Area. This decrease in growth is anticipated to help the City of Redlands balance housing with the number of jobs so as to maintain consistency with the Growth Management Policies in the Regional Comprehensive Plan and Guide prepared by the Southern California Association of Governments. The following are guiding and implementing policies aimed at controlling growth.

Guiding Policies: Growth Management

- 2.0a** Development within the Planning Areas shall be consistent with the net density of development as provided for in the General Plan.

The General Plan is designed to accommodate "ultimate development" of the Sphere of Influence. This does not mean that the General Plan should never be changed; however any modification should be consistent with the overall themes, goals, and policies of the General Plan.

- 2.0b** Provide for expansion of housing and employment opportunities while avoiding deterioration of the quality of life associated with rapid growth.

- 2.0c** Encourage annexation to the City of all land developed or to be developed within the Redlands Planning Area.

San Bernardino County General Plan policies support annexation of land designated for urban development.

- 2.0d** Encourage programs that will enable concurrent provision of necessary urban services prior to approval of development projects requiring services.

Implementing Policies: Growth Management

- 2.0e** Encourage and promote orderly development and growth of urban areas while maintaining and encouraging the best possible use of agricultural land, protecting it against premature encroachment of non-agricultural development. Consider the costs of extending urban facilities and services in the review of urban development.

- 2.0f** Support San Bernardino County in implementation of policies LU-9d. and e. of the County General Plan as follows:

- "d. Support City annexations/incorporations of urban designated lands.
- e. Recognize and implement growth control limits adopted by cities as they apply to spheres."

LU-9 e. (Support annexations/incorporations of urban designated lands), and LU-9 f. (Recognize and implement growth control limits adopted by cities as they apply to spheres) are commitments essential to implementation of the Redlands General Plan.

persons per household were 2.89 and 3.10.

Table 2.2, Housing Growth for the City of Redlands and County of San Bernardino, shows figures for changes in housing between 1990-94.

Table 2.2
Housing Growth for the City of Redlands and County of San Bernardino
1990-94

Jurisdiction	1990	1994	%
City of Redlands	26,362	26,906	2.0
San Bernardino County	474,373	451,353	-4.8

Source: 1990 Census; Department of Finance, California Annual Population and Housing Data, Demographic Research Unit, January 1994.

Employment

The majority of employment opportunities within the Planning Area are currently associated with agriculture, retail and professional/office. The number of jobs actually within the Planning Area are estimated to be lower than the number of dwelling units.

Employment numbers for the City of Redlands for 1990 were calculated using existing square footages for commercial and industrial uses and multiplied by conversion factors taken from the RIVSAN CTP Model Consistency Checklist. In 1990, the City of Redlands had approximately 20,549 employees. Employment figures for 1994 were calculated using the same method. In 1994, the City of Redlands had approximately 26,483 employees. For the year 2010, employment projections were calculated using SCAG data from the RIVSAN CTP Model. It is estimated that the City of Redlands will have approximately 57,199 employees by the year 2010.

According to the Southern California Association of Governments' Regional Comprehensive Plan and Guide, the County of San Bernardino had approximately 488,000 people employed in 1990. This figure increased to 526,400 by the year 1994, an increase of 8.0 percent. It is projected that the County of San Bernardino will employ approximately 888,000 people by the year 2010.

Table 2.3, Employment Growth for the City of Redlands and County of San Bernardino, shows figures for employment growth between 1990-94.

Table 2.3
Employment Growth for the City of Redlands and County of San Bernardino
1990-94

Jurisdiction	1990	1994	%
City of Redlands	20,549	26,483	28.5
San Bernardino County	488,000	526,400	8.0

Table 2.1
Population Growth for the City of Redlands and County of San Bernardino
1970-94

Year	1970	1980	%	1990	%	1994	%
Jurisdiction							
City of Redlands	36,374	43,619	19.0	60,394	38.4	66,301	9.7
San Bernardino County	681,092	895,016	31.4	1,418,380	58.4	1,591,800	12.2

Source: 1970, 1980, 1990 Census; Department of Finance, California Annual Population and Housing Data, Demographic Research Unit, January 1994.

As can be seen, population in the City of Redlands has grown over the last twenty-four (24) years. Based on Department of Finance data, the average annual growth rate between 1980-90 and 1990-94 was 3.8 and 2.4 percent, respectively. Based on existing population, projected number of dwelling units and persons per household, although it is impossible to predict the exact population of the City of Redlands under the provisions of this General Plan it is estimated that the City of Redlands could have a population of 101,644 people at buildout. It is anticipated, however, that implementation of this growth management element and other provisions of the General Plan will reduce the likely number of residents at buildout to approximately 90,000.

Regionally, from 1970 to 1990, the County of San Bernardino had an average annual growth rate of 44.9 percent.¹ As of 1994, the County of San Bernardino had a population of 1,591,800.² According to the Southern California Association of Governments' (SCAG's) Regional Comprehensive Plan and Guide, adopted in January of 1995, it is estimated that the County of San Bernardino will have a population of 2,469,000 people by the year 2010.

Housing

According to the 1990 Census, the Planning Area (City of Redlands and Sphere of Influence) had a total of 26,362 dwelling units. Between 1991 and 1994, the City of Redlands recorded an increase of 544 dwelling units, an increase of 2.0 percent, bringing the total to 26,906.³ It is projected that total housing units for the City of Redlands at buildout of the General Plan could be as many as 36,414. It is anticipated, however, that implementation of this growth management element and other provisions of the General Plan will significantly reduce the likely number of dwelling units at buildout to approximately 32,000.

According to the 1990 Census, the County of San Bernardino had a total of 474,737 dwelling units. Between 1991 and 1994, the County of San Bernardino recorded a decrease of 23,384 dwelling units, bringing the total to 451,353. Although housing units were constructed within the County, the number of dwelling units decreased due to annexations by other cities. It is projected that total housing units for the County of San Bernardino in the year 2010 will be 916,000.

According to the Department of Finance, the persons per household in 1990 for the City of Redlands was 2.61 and increased to 2.76 in 1994. Compared to the County of San Bernardino for the same years respectively,

¹ 1970, 1980, 1990 Census.

² Department of Finance, California Annual Population and Housing Data, Demographic Research Unit, January 1994.

³ First American Title Ins., Dataquick Information Network Report, March 1995.

2.0 GROWTH MANAGEMENT ELEMENT

The General Plan provides for buildout of the Redlands Planning Area. Growth management policies apply to development within the City of Redlands and state the City's position regarding development in the presently unincorporated portions of the Planning Area. The policies are intended to implement the Plan's land use proposals, maintain adequate public services, and ensure fiscal balance during the buildout period.

Growth-Rate Limitation: Measure N, a zoning ordinance that amended Proposition R, allows a maximum 400 dwelling units to be added to the City each year. Up to 50 of the units are to be single-family homes on existing lots, with the remainder to be allocated according to a point system.

Measure N, a zoning ordinance, provides that sewer or water service may be extended to an additional 150 units per year (no carry-over) within the Sphere of Influence, consistent with the City's General Plan.

Density Limitation: Under Measure N, a zoning ordinance, no land designated by the General Plan as urban reserve as of June 1, 1987 is to be redesignated for a higher density than one dwelling unit per 14,000 square feet of net site area, except by a four-fifths vote of the City Council with findings of "no significant adverse environmental impact."

Current City policy that specifies a maximum density on slopes of 15 to 30 percent at one unit per two and one-half acres and, on slopes exceeding 40 percent, one unit per 10 acres. On slopes between 30 and 40 percent, required site area increases approximately proportionally from five acres to 10 acres per unit depending on slope and soil type.

Annexation: The City has prepared a plan for the ultimate development of the Sphere of Influence and approves annexations only if they are consistent with the Plan.

Continued development of the Planning Area will be influenced by demographic characteristics within the City and surrounding environs including the cities of San Bernardino, Loma Linda, Highland, Yucaipa, Calimesa, and unincorporated lands.

While growth limitations aim to control development at a slow rate, urban expansion of the Planning Area will continue and help support the population with additional jobs and housing. The following is a brief overview of the Planning Area regarding population, housing and employment. For additional detailed information on these topics, please refer to the Land Use and Housing Elements.

Population

According to the 1990 Census, the County of San Bernardino had a population of 1,418,380. The Department of Finance updated this figure in 1994 to 1,591,800. In 1990, the City of Redlands had a population of 60,394. As of 1994, this figure increased to 66,301.

According to the Census and the Department of Finance, Population Growth for the City of Redlands and San Bernardino County, is shown below between 1970-94 in Table 2.1.

3.0 CITY DESIGN AND PERSERVATION ELEMENT

REDLANDS GENERAL PLAN

3.0 CITY DESIGN AND PRESERVATION ELEMENT

While the General Plan is designed to meet readily measurable needs such as acceptable traffic flow and a range of housing types, its broader purpose is to preserve and create an urban environment that enables people to feel good about living and working in Redlands. It is appropriate that the design component of the General Plan precede the land use component. The intent is to address design issues at the City scale as distinct from the project scale. City Design and Preservation policies, together with the General Plan Diagram, call for both change and preservation.

Redlands' image is derived from its rich agricultural and architectural heritage. Large groves at all edges and remnant groves throughout the City are constant reminders of an agrarian past. The care and effort that created the City is evident at many scales, from the well-crafted stone curbs to the exquisitely detailed buildings. A diversity of landforms within the Planning Area has defined Redlands and made its form understandable. Few Southern California communities can lay claim to the sense of place and history Redlands has managed to retain during a century of development.

The City Design section of this element is concerned mainly with new development, while the focus of the Historic and Scenic Preservation section is on designated conservation areas and historic districts.

3.10 City Design

North Redlands

Two prominent visual assets are the view from the Santa Ana River Bluff of the San Bernardino Mountains and the University of Redlands. With careful planning additional amenities can be included in North Redlands to include the five amenities presented below:

- Plant trees on arterials, giving priority to Lugonia Avenue and San Bernardino Avenue. Tree rows will create a series of partially enclosed "urban rooms," will shrink apparent street widths, and will reduce summer temperatures. (See Policy 3.10.q)
- Maximize agricultural preservation. Citrus and other agricultural preservation should be retained where feasible for its aesthetic and biotic value as well as its contribution as the City's original economic base. North Redlands has extensive unsubdivided frontages along which citrus can continue to be efficiently farmed, buffering arterial streets without requiring a reduction in density. (See Section 4.0 Land Use and 7.0 Open Space and Conservation Elements)
- Complete the blufftop Scenic Drive bordering the Santa Ana Wash between Alabama Street and Judson Street. View turnouts with classic balustrades and native planting should mark the edge. (See Policy 3.10t.)
- Develop more imageable residential neighborhood street patterns. Require a street design for all unsubdivided land within each superblock bounded by arterial streets prior to subdivision approval. (See Policy 3.10p.)

Mentone

Re-subdivision of the 1887 lot pattern created by the Santa Fe Railroad has made Mentone a community of great variety -- the opposite of a cookie-cutter subdivision. Its village character can become stronger as both residential and commercial infill occur. The 300 foot x 2,000 foot "plaza" on either side of Mentone Boulevard that was the railroad station site could become the centerpiece. Potential uses for the plaza include park, shopping enclave, and mass transit station/commercial use.

Crafton

The General Plan Diagram calls for keeping the citrus groves with a Rural Living designation and adding residential development at Very Low Density on slopes under 15 percent that are not suited for agriculture.

South Redlands

This is the city of palm-lined avenues, stone curbs, Victorian mansions, craftsman bungalows, the Redlands Bowl, the Smiley Library, and a pedestrian oriented Downtown. The Downtown area is the site of the original commercial center of the City and through redevelopment efforts has become a visual and economic asset to the City while retaining its rich historic resources.

South Redlands' main challenge is preservation of its residential neighborhoods. All of the designated Historic Districts are in this sector which includes two-thirds of the City's historic architectural resources.

Where the Medium Density Residential designation remains, regulations to preserve the existing scale and character are to be enacted. (See Section 4.0 Land Use Element). Remaining citrus frontages are to be preserved. (See Section 4.0 Land Use and 7.0 Open Space and Conservation Element)

Planted medians or other landscape elements that would reduce the expanse of pavement could be considered for Olive Avenue and other wide streets that do not need more than two lanes of traffic moving at 25 miles per hour.

San Timoteo/Live Oak Canyons

This sector has always been Redlands' "back country," and is not considered as a candidate for development at urban densities. The Southeast Area Plan maintains the character of the area by retaining "signature ridges" and prohibiting grading of adjoining canyon walls exceeding 50 percent slope (See Section 4.42, Land Use Element). The General Plan policy limiting development to slopes under 30 percent (see Section 8.0 Health and Safety Element) provides stronger protection against changes in the topographic character.

The General Plan Diagram changes San Timoteo Canyon Road to create a new alignment with California Street. The U. S. Army Corps of Engineers flood control project for San Timoteo Canyon Creek identifies a series of sedimentation basins at the mouth of San Timoteo Canyon and approximately 5.1 miles of a large concrete trapezoidal channel. The City of Redlands and other local groups are hoping to work with the Army Corps of Engineers for a more environmentally sensitive flood control project. Such a project could incorporate a natural bottom channel, and basins which are designed as linear parks and wildlife corridors. Because San Timoteo Canyon Road is a region-serving highway that will carry up to 33,000 daily vehicles, it should have a minimum right-of-way for a four lane road. Careful attention should be paid to the traffic circulation analysis and its recommendations for San Timoteo Canyon Road.

A citrus greenbelt could separate Redlands and Loma Linda if there is sufficient interest. This would define the boundaries between the two cities.

West Redlands

During the 1980s, large, generally well-designed apartment projects and industrial development have narrowed the band of citrus that separates Redlands and Loma Linda. Virtually all of the undeveloped area west of Texas Street is in the *East Valley Corridor Specific Plan*. While the Plan identifies the area north of the Morey Arroyo for non residential development, the City of Redlands may consider residential use appropriate in a mixed use development in this area.

The General Plan designates for preservation the narrow strip of citrus between the railroad and I-10

freeway to the east side of California Street as the single most visible celebration of citrus heritage and as a separator between Loma Linda and Redlands.

Northwest Redlands

Most of this sector is within the *East Valley Corridor Specific Plan* and will be developed in accord with its design guidelines. Existing landmark Washingtonia Fan Palm rows will be saved.

Guiding Policies: City Design

3.10a Preserve awareness of Redlands' heritage as the navel orange capital by employing a variety of techniques to preserve agriculture.

3.10b Retain the character of the neighborhoods, streets, and buildings that established Redlands' reputation as an ideal Southern California city.

See Section 3.20, Historic and Scenic Preservation.

3.10c Discourage large master planned projects which create housing of one type, similar design, or narrow price range.

Giant "master planned" projects are out of character with Redlands.

3.10d Create new focal points that maintain the City's rich mix of urban delights.

As the City grows, the dominance of existing focal points inevitably diminishes. Examples of new ones envisioned by the General Plan include: Santa Ana blufftop scenic drive and overlooks; regional shopping center and well designed offices in the East Valley Corridor; Citywide parks to be located in the San Timoteo Canyon area and Northeast Redlands, and citrus throughout the City.

3.10e Preserve the natural appearance of steep hillsides and ridges.

Conservation, safety, and fiscal reasons justify preservation, but visual satisfaction is more widely appreciated.

3.10f Establish or reinforce City entrances that announce arrival and convey the spirit of the City.

At some locations the marker may be an orange grove or a bridge; at others a stone pylon or the start of a palm row.

3.10g Use street trees to differentiate arterials and to reduce the apparent width of wide streets.

3.10h Maintain the village-like character of Downtown Redlands.

3.10i Give particular attention to strengthening the image of North Redlands.

3.10j Maintain the rural feel of San Timoteo and Live Oak canyons.

3.10k Maintain adequate setbacks along major and minor residential arterial streets.

Implementing Policies: City Design

- 3.10l** Use Caltrans and local resources to implement the I-10 Corridor Landscape Master Plan.

A future 10-lane freeway will overwhelm Redlands unless it is part of a major landscape element.

- 3.10m** Prepare a citywide streetscape plan for arterials.

Tree species, median, or parkway landscape treatment and curbs and sidewalk location and materials should be specified.

- 3.10n** Avoid soundwalls as a standard on arterial streets in residential areas.

Walled cities with deserted sidewalks and bleak streets have become the norm in many recently built cities. Redlands has avoided this blight by using side-on cul-de-sacs, but design to mitigate noise resulting from projected traffic increases will require other techniques. Preservation of citrus frontage, use of berms, and frontage roads are alternatives.

- 3.10o** Limit the visible bulk of single-family homes.

As land values rise in highly desirable California communities, efforts to maintain rule of thumb house-to-land value ratios have resulted in construction of houses that are out of scale with their neighborhoods. Redlands has experienced little of this problem so far, but trends suggest that regulation will be needed.

- 3.10p** In North Redlands require residential subdivisions be consistent with a circulation concept plan for subdivision of all land within bounding arterial streets.

Agricultural subdivision of North Redlands created parcels 333 feet wide. If subdivision of each parcel is planned by independent owners without a larger perspective, there is little opportunity to avoid a monotonous, grid street pattern. On the plus side, fragmented ownerships have prevented massive projects with little variation in house design or price.

- 3.10q** Plant large-scale street trees on arterial streets.

Few streets developed since 1950 have adequate street trees for a City with hot summers, yet trees are the simplest and most cost-effective way to improve the feel of almost any street. Tall trees reduce apparent width, provide shade and reduce air pollution.

- 3.10r** Consider creating tree-lined medians where the width of the street is adequate to accommodate the anticipated traffic flows along with a landscaped median.

- 3.10s** Locate parks on highly visible sites where feasible.

Parks such as Texonia Park and Community Park make maximum contribution to the appearance of their neighborhoods.

- 3.10t** Create overlooks for motorists, cyclists, and pedestrians to stop and admire the City. Retain existing easement and rights of way that further these purposes.

Formal and informal viewports exist. More can be provided either within existing public right of way or when adjoining property is subdivided.

- 3.10u** Complete the blufftop scenic drive bordering the Santa Ana Wash between Alabama Street and Judson Street.

3.20 Historic and Scenic Preservation

The purpose of the Historic and Scenic Preservation component of the City Design and Preservation Element is to foster awareness of Redlands' many historic and cultural resources and to establish policies that will protect them.

History and Architecture of Redlands

Redlands' Beginnings. Redlands' early history is similar to that of much of Southern California. It was inhabited by Cahuilla and Serrano Indians, related to the Shoshone of the Great Basin area. During the Spanish period the Indian villages, the San Bernardino Rancho (named after the Italian saint), and the Asistencia were established by the San Gabriel Mission. The missionaries developed the first stable water supply for the area by having the Indians dig a "zanja" to divert the waters from Mill Creek into the Valley. During the 19th century this water allowed ranching districts to develop in Crafton and in the Asistencia area. Today the Mill Creek Zanja, which is listed in the National Register of Historic Places, is used for local drainage, spreading, and flood control.

In 1842, the Lugo family received a land grant from the Mexican government to occupy the San Bernardino and Yucaipa valleys. After the signing of the treaty of Guadalupe-Hidalgo in 1848, California became a territory of the United States, and it was admitted to the Union in 1850. The following year, five hundred Mormons moved into the area, purchasing the San Bernardino Rancho from the Lugos. Their settlement at San Bernardino lasted until 1857, when they were recalled to Utah and their land was divided and sold.

In 1866, Dr. Ben Barton finished his brick house near the Asistencia on what was then known as Barton Ranch. The first settlement in Lugonia occurred in 1869, and the first store in the area opened in Lugonia in 1881.

The year 1881 marks the beginning of Redlands as a town. E.G. Judson and Frank E. Brown built a canal from Santa Ana Canyon to Reservoir Canyon located along the path of Interstate 10 from below Panorama Point to Ford Park to bring water to the area for growing citrus. They laid out a townsite parallel to the slope and, because the dry adobe soil was red, they named it Redlands. Three years later, Frank Brown built the Bear Valley Dam and reservoir, thereby assuring a water supply for residents of the new town. By 1885, two transcontinental railroads ran through the San Bernardino Valley, although neither stopped in Redlands. The first spur to Redlands was built in 1887.

California experienced the biggest land boom in its history during the late 1880s. The rate war between the Santa Fe and the Southern Pacific railroads, which caused the boom, had a profound influence on the growth of Redlands, Crafton, and Lugonia as well as various realty tracts known by such names as Terracina and Mound City.

The Redlands area prospered and grew during this period. The collapse of the boom in 1888 left Redlands well-established and in that year Redlands, Lugonia, the Brookside area, and a portion of Crafton voted to incorporate as Redlands. The incorporation joined the two distinctive street patterns that characterize Redlands today: the north-south Lugonia grid merges with the slope-oriented Redlands grid at the south edge of the Valley.

Early Buildings. Although most of the structures built during Redlands' earliest period are gone, some remnants remain. Two of these are the Zanja and the Asistencia (reconstructed in the 1920s and 1930s). Other adobe structures from the Mexican period survive in San Timoteo Canyon. Redlands had its own brickyard starting in the late 1880s. Most downtown business buildings and many early industrial buildings were built of brick. The downtown, which grew along Orange and State Streets, still has many brick buildings hidden behind facades remodelled in the 1950s and 1960s.

During the 1880s boom, houses sprang up quickly. Many were Victorian cottages which had Queen Anne and Colonial Revival details. These smaller Victorians were often decorated almost as elaborately as their larger sisters, but some were plain hip-roofed boxes. Many of these cottages still stand in central Redlands and in Lugonia.

Cultural Development. Redlands established an early tradition of civic and cultural improvement with the founding in the 1880s of the United Workers for Public Improvement, an organization devoted to civic beautification. In 1887 the Horticultural and Improvement Society was organized, Redlands' orchestra made its first public appearance, the San Bernardino and Redlands motor train commenced service, and the first Citrus Association was formed.

In 1889, two New Yorkers, Alfred H. and Albert K. Smiley, arrived in Redlands. These twin brothers, who were in their sixties, were well-known philanthropists and educators. They spent their winters in Redlands and attracted a circle of friends who played important roles in the City's business, cultural, and scenic development. Smiley Heights, Smiley Park, and the A.K. Smiley Public Library are visible signs of the twins' philanthropy, and much of the present-day aesthetic tradition can be attributed to the Smileys' influence.

Resort Era. Soon after the development of the 200-acre Canyon Crest Park on Smiley Heights, Redlands became a center for wealthy Eastern visitors searching for a warm winter climate for comfort or health. They built mansions surrounded by expansive grounds on the heights above the town. Several hotels were built to cater to the winter visitors and the town became a tourist center. At the same time, Redlands was becoming a packing and shipping center for citrus growers in the surrounding area. Modest neighborhoods were developing along Olive, Cajon, and Brookside, and in Lugonia. Tourists and growers contributed to Redlands' prosperity which is expressed in the architectural legacy from that period.

Significant civic improvements were also made during this period. By 1910, most streets were paved, sidewalks and stone curbs laid, and water, sewer and electricity systems fully established. The population in 1890 was 1,904; by 1900, it was 4,797; and by 1910 it had reached 10,000.

It was also during the turn of the century that private railroad cars brought the wealthy Easterners who built the elaborate mansions on large parcels of property. These mansions reflect a period when great wealth was exhibited through the building of a great house or estate. Most of these estates fall under the architectural styles described in this element, but there are a few exceptions. Kimberly Crest is an example of the Chateausque style, based on the monumental 16th century chateaux of France. Winter visitors were less likely to build in the popular Queen Anne style favored by those who made their money locally. The more sophisticated and cosmopolitan Easterners emulated instead the grand houses of Europe.

Most of these grand houses are set in landscaped grounds with imposing entrances. A few of these estates, such as Smiley Heights and Prospect Park, were open to the public and became tourist attractions. Many of these estates are gone, but those that remain are precious landmarks from a bygone era.

Residential Architecture (1887-1913). The period 1887-1913 produced more variety in Redlands' residential architecture than any period in the City's history. Many existing buildings exhibit the popular architectural styles of this period: Queen Anne, Shingle Style, Beaux Arts Classicism, Colonial Revival, Mission Revival, and Craftsman.

Redlands is known for its Victorian gems featured in books, calendars, and on tours. Row upon row of Victorians line such streets as Olive Avenue, Highland Avenue, and Cajon Street. The Victorians vary from the Gothic brick cottages to elaborate Queen Anne mansions. The original Lugonia area and the Redlands neighborhoods near downtown are full of small Victorian cottages worthy of preservation. Many of these cottages are Colonial Revival (sometimes called Neoclassic) and feature classical porch columns, hip roof, overlap siding, recessed porches, and fixed pane and double-hung windows. These cottages continued to be built in the early years of this century.

A larger version of the typical neoclassic Victorian Cottage is the American Four square or Classic Box, a two-story house with Colonial Revival features. The Classic Box and Mission Revival styles are well-represented in Redlands. The Holt House and the Burrage Mansion are fine examples of Mission Revival, a style that may be better represented in Redlands than any other city in Southern California.

Craftsman Style. During the first part of this century, progressive ideas were expressed in the studied plainness of the Craftsman bungalow. In reaction against the Industrial Revolution, the rigidities of classicism, and the mass-produced ornament of the Victorian styles, the Craftsman ethic proclaimed a return to nature, emphasizing the use of natural materials, honest craftsmanship, and healthful living. Handcrafted items were admired, both for their usefulness and as an expression of human creativity.

The Craftsman house was an intimate home, with the hearth as its focal point, cozy built-in benches and nooks, and softly burnished wood paneling. The horizontal lines of the Craftsman bungalow fit into the landscape; its stone foundation and heavy wood beams came from the land itself, while vine-covered pergolas and eaves made the house a part of nature. Broad porches encouraged living in the out-of-doors.

These simple bungalows were touted as "democratic" houses for the common man. With their built-in furniture, prominently exposed structural elements, informal floor plans and designs integrated into the natural environment, these bungalows are often seen as the forerunner of modern architecture.

Craftsman architecture grew out of the Arts and Crafts Movement that began in England in the late nineteenth century under the leadership of William Morris and John Ruskin. The movement especially idealized the Medieval period. It addressed social, industrial, and political issues, and fostered craftsmanship in the fine arts, literature, bookbinding, printing, furniture, and textile design as well as architecture. Its principal American exponent was Gustav Stickley, who published *The Craftsman*, a magazine featuring articles and illustrations promoting Craftsman philosophy and taste. Stickley also founded a company that manufactured the simple heavy oak furniture, sometimes called "Mission" furniture, which was intended to furnish Craftsman houses.

Commercial, Public, and Institutional Buildings. Late 19th century brick commercial vernacular buildings dominated the downtown. The most substantial building of the period was the A. K. Smiley Library, which combines the curvilinear gable and tower of the Mission Revival with the heavy stone arches associated with Richardsonian Romanesque, melding the California tradition with New England and medieval Europe. The First Methodist Church was a Mission Revival building, while the Congregationalists chose a modified Richardsonian Romanesque, and the Episcopalians a Gothic Revival style. Most unusual was the Unity Church, a brick building reminiscent of English Arts and Crafts traditions.

Another revival during this period was Beaux Arts Classicism, which embraces the styles used in the United States from 1890-1930 and in Redlands from about 1908-1920. This style projected the dignified image required for public buildings, railroad stations, and banks. Popularized by the "Great White City" built for the 1893 Columbian Exposition in Chicago, the style features symmetrical, balanced facades; classical columns; porticos; and monumental flights of stairs. Obvious examples in Redlands are the Santa Fe Railroad Station as well as the Administration Building, President's House, and several other buildings at the University of Redlands.

The Freeze and its Aftermath (1913-1920). The 1913 freeze, which struck on January 5, 6, and 7, was a catastrophe for Redlands' growers. Icicles hung on the trees in most groves; many of the trees were completely

defoliated. The losses of the citrus growers soon became an economic and social disaster for the entire town. In the years following the freeze, Redlands lost 2,000 people, and it was not until after World War I that building and neighborhood development started once again.

The Thaw -- The Boom of the Twenties. The decade of 1920-1930 was another boom time throughout the United States, in California and also in Redlands, which gained about 5,000 in population during the decade. The new residents contributed to the growth and economic prosperity of the commercial area, where many downtown buildings went up during this decade. The citrus industry prospered once again, and the town's other "industry" -- the University of Redlands -- also expanded. A growing population also led to construction of major buildings for the high school. The number and quality of buildings from this period contrast sharply with the decline of the previous years.

During the first 40 years of this century domestic buildings employed a number of historical revival styles. Though the same revival style might appear in 1910 and again in 1920 or 1930, each decade left a different imprint on the style. The 1900-1920 period revival details reflected Victorian exuberance or Craftsman restraint, while the wealth and sophistication of the 1920's allowed accurate, well crafted details. During the Depression era 1930's economics and contemporary taste demanded more simplified details.

At no time were there so many revivals as during the 1920s: Mediterranean (which combined Spanish and Italian elements), Spanish Colonial Revival, Colonial Revival, Tudor Revival, and Norman Revival. The 1920s were boom times throughout Southern California, only this time oil (and perhaps citrus) took the place of land and railroads. Theaters, shopping centers, and middle class homes were designed to conjure romantic times and far away places. The longing for a foreign atmosphere was so great that entire tracts were developed in styles based on European models.

The most prevalent style of the period was California Mediterranean, called "Californian" at the time. The romance of California's past inspired architects and builders, who borrowed freely from the buildings of Colonial Mexico, Spain, Italy and other Mediterranean lands, as well as from the early adobes of the American Southwest and of Monterey. Low-pitched, red-tiled roofs, arches, plastered exterior and interior walls, carved or cast ornamentation, arcades, balconies with railings of wrought iron or wood, and window grilles are some of the characteristic features of houses built during this era. The purer forms of California Mediterranean are categorized in subgroups such as Spanish Colonial Revival, Monterey Revival, and Pueblo Revival; many of the most outstanding examples, however, are a unique blend of motifs that could only have originated in California and were created to express a California way of life.

Redlands also has examples of other styles prevalent in California during the 1920's: the Tudor Revival Cottage, Colonial Revival, Twenties Craftsman, and other period revivals. These styles replaced the Craftsman bungalow in the many tracts of smaller houses built during this period. In 1924 Garrett Huizing, a local builder, developed the Buena Vista tract, which included a rare example of Egyptian Revival architecture.

The neighborhood around the University of Redlands had been subdivided with entrances defined by clinkerbrick posts in 1917, but was not developed until 1924. Prevalent in that area are Twenties Craftsman bungalows; they differ from their rustic forbears in their smaller (and less expensive) wood members, smaller porches, and often symmetrical facades.

A significant Period Revival development is Normandie Court, a collection of eighteen Norman Revival cottages organized around a central driveway. Based on the rural architecture of Normandy, the picturesque cottages feature high hipped roofs, conical towers, wavy shingling patterns on the roofs, and stucco wall finishes of varying texture.

Builders of the 1920s were able to advertise Redlands as a fine residential city because of the expansive public streets, street trees, and cut-stone curbs, all of which had been planned and planted by the far-sighted settlers of the 1890s and early 1900s.

Redlands' Historic Neighborhoods. The historic neighborhoods of Redlands provide the context and setting for the many historic resources of the town. The setting of Victorian and early 20th century historic buildings has, in many instances, been compromised by lot splits, zoning changes, variances, or conversion to other housing. Saving the building also requires retaining the historic context of the structure. Modern buildings crowded next door to a stately two-story 1890 house give a completely different impression than the house in its original neighborhood with original plantings.

Redlands' early neighborhoods developed as the unique result of changing technology, ways of life and philosophies, new architectural fashions, and innovations in urban planning. The forces and times that produced these neighborhoods are now gone.

Many people in Redlands live in neighborhoods built between 1890 and 1930. These neighborhoods are important because they continue to provide housing, schools, public amenities, and commercial facilities that make neighborhoods good places to live.

The late 19th and early 20th century houses and development patterns are key elements of these neighborhoods. Because these neighborhoods seem so ordinary, many people overlook their unique qualities or consider them undeserving of special attention. Consequently, new construction and development, building alterations, land-use plans and zoning have frequently ignored the heritage of these neighborhoods. Modern factory produced building materials and lack of information about earlier building techniques have often resulted in inappropriate alterations. Some homeowners, for example, add Victorian ornamentation or pseudo Colonial doorways to make their house appear more historic. As a consequence, intact historic neighborhoods are becoming increasingly rare in Southern California.

Insensitive alterations and changes can destroy the special characteristics of these early neighborhoods. To avoid this, residents interested in neighborhood revitalization and stabilization need to become familiar with the area's architecture and history. By using this knowledge to build pride in the neighborhood and to foster a neighborhood conservation ethic among fellow residents and City officials, residents can help their neighborhoods remain good places to live while retaining links to the past.

For those who take the time to look, these neighborhoods provide a wide variety of visual links to the past by illustrating the transition from the Victorian era to the modern world, reviving images of our European and colonial heritage and providing guidelines for future urban development. These older neighborhoods are indeed the basis of Redlands' architectural heritage, deserving of widespread recognition.

Historic Preservation in Redlands

The City of Redlands and its citizens have long been concerned with the preservation of Redlands' architectural, historic, cultural, archeological and scenic resources, referred to here as "historic resources." In the early seventies, Redlands began taking an inventory of its historic structures. In 1976, Redlands received a State grant to survey historic properties, documenting 568 historic properties. A Historic and Scenic Preservation Commission was established in 1976 to advise the City Council regarding designation and protection of historic resources. In 1985, the first Historic and Scenic Preservation Element of the General Plan was prepared and adopted. An ordinance adopted in 1986 strengthened the protection of resources by allowing the Commission to deny demolition, except in cases of proven hardship, and to designate without owner consent.

A more thorough inventory of historic resources began in 1985. There are approximately 2,000 buildings over 50 years old that remain to be inventoried. The vast majority of these are residential and institutional.

The City Council, after recommendation by the Commission, has placed over 60 structures and 8 districts on its Register of Historic and Scenic Properties, and has designated a number of streets as Scenic Drives. The Zoning Ordinance has been amended to encourage "adaptive reuse" of older residential buildings in certain commercial areas and to allow bed and breakfast inns in historic buildings.

The A. K. Smiley Library Heritage Room has been designated as the official archives of the City. Its collections provide an invaluable resource for documentation of the history of Redlands and its historic resources.

Classification of Historic Resources. Historic resources in Redlands are divided into five categories: landmarks, historic properties, historic and scenic districts, historic and scenic thematic collections, and urban conservation districts.

- A landmark is defined as a building, site, or area with exceptional character or exceptional historic or aesthetic interest or value as part of the development, heritage, or cultural characteristics of the City, State, or nation.
- A historic property is a structure or site that has significant historic, architectural, or cultural value.
- A historic and scenic district is a significant neighborhood, agricultural or passive recreational open space, enclave or collection of historical buildings that may have been part of one settlement, architectural period, or era of development.
- An historic or scenic thematic collection is a collection of significant sites or buildings which are not necessarily located together in the same geographical area, but are linked by a historical or architectural theme.
- An urban conservation district is a residential or commercial neighborhood which meets the designation criteria, but contains a significant proportion of non-historic properties, and which the City wishes to maintain and revitalize.

Historic and Scenic Preservation Ordinance. The Redlands Historic and Scenic Preservation Ordinance provides a way for the City to recognize and protect its historic resources. The Ordinance establishes a process for designating historic resources and reviewing alterations to the exterior of these resources. Because there is a large number of resources and designating them is a time-consuming process, the Ordinance provides for the Historic and Scenic Preservation Commission to place all potential resources on a list of "nominated resources." An application to alter the exterior of a nominated resource activates the designation procedure, thus ensuring protection of historic resources that the City has not yet been able to designate.

The Commission is responsible for seeing to it that the properties on the list are surveyed, using generally accepted survey methods to identify and describe each historic resource. The Commission then prepares a report using this information to determine whether a resource is significant and, therefore, should be officially recognized as a designated resource.

The criteria, any one of which may be used to determine such designation, are as follows:

1. It has significant character, interest, or value as part of the development, heritage, or cultural characteristics of the City of Redlands, State of California, or the United States;
2. It is the site of a significant historic event;
3. It is strongly identified with a person or persons who significantly contributed to the culture, history, or development of the City;
4. It is one of the few remaining examples in the City possessing distinguishing characteristics of an architectural type or specimen;
5. It is a notable work of an architect or master builder whose individual work has significantly influenced the development of the City;
6. It embodies elements of architectural design, detail, materials, or craftsmanship that represent a significant architectural innovation;
7. It has a unique location or singular physical characteristics representing an established and familiar visual feature of a neighborhood, community, or the City;
8. It has a unique design or detailing;
9. It is a particularly good example of a period or style;
10. It contributes to the historical or scenic heritage or historical or scenic properties of the City (to include, but not limited to landscaping, light standards, trees, curbsings, and signs);
11. It is located within a historic and scenic or urban conservation district, being a geographically definable area possessing a concentration of historic or scenic properties which contribute to each other and are unified aesthetically by plan or physical development.

Before a property or district is designated as a significant historic resource, the Commission must hold a public hearing and make a recommendation to the City Council. The Council then holds its own public hearing and makes the final decision on designating the property. All designated properties are put on the City's Register of Historic and Scenic Resources.

Redlands' Municipal Code gives the City authority to designate without consent of the owner. This authority has been established by the U.S. Supreme Court decision in the Penn-Central case (1978) and by analogy with land-use law. The challenge here is to balance preservation goals and the needs of the community as a whole with the need to bring property owners into the preservation process in a positive fashion. Just as a property owner cannot veto zoning restrictions, so historic resource designations are not subject to an owner's veto. If the owner can show that preservation of the building is a hardship (not including loss of profit), both the Penn Central precedent and Redlands' code allow the possibility of demolition. The City of Redlands also provides certain benefits to owners of historic properties, including fee reductions for City permits. The effect of designation is to create an overlay, imposing design review and other regulations on designated property. The underlying zoning regulations still apply.

Once a property is designated, all significant exterior alterations are reviewed either by a staff preservation expert or by the Historic and Scenic Preservation Commission, using the procedures outlined in the Ordinance. Design guidelines are used to help determine if an alteration is appropriate. The kinds of changes that are reviewed include alterations to a building exterior, new construction or major landscape changes on the site of a historic

resource, subdivision of a historic setting or site, and demolition or removal of a historic resource. When a change to the exterior of a historic structure or to a site is approved, the applicant is granted a Certificate of Appropriateness. In the case of severe hardship, the Ordinance provides the applicant the opportunity to apply for a Certificate of Hardship.

As of June, 1995 the City Council had approved eight districts.

1. **Eureka Street Historic District:** Five Victorian cottages (1885-1900).
2. **West Highland Avenue Historic and Scenic District:** A broad avenue of prestigious houses, many of them pre 1900 (1887-1914).
3. **Early Redlands Historic and Scenic District:** Substantial Victorian and turn of the century houses and churches close to downtown.
4. **Normandie Court Historic District:** Eighteen "Hansel and Gretel" cottages built in 1926.
5. **East Fern Avenue Historic and Scenic District:** A spectrum of Redlands' major architectural styles between 1900 and 1956.
6. **Garden Hill Historic and Scenic District:** A unique curving hillside street featuring an adobe house, California Mediterranean houses and other styles, enhanced by beautiful views.
7. **La Verne Street Historic District:** Primarily Victorian and turn of the century cottages.
8. **Smiley Park Neighborhood:** This large district focuses on Smiley Park and surrounding cultural amenities including the Redlands Bowl, the A.K. Smiley Public Library, the Lincoln Memorial Shrine and the City Hall as well as the surrounding residential areas.

Guiding Policies: Historic and Scenic Preservation

- 3.20a Identify, maintain, protect, and enhance Redlands' cultural, historic, social, economic, architectural, agricultural, archaeological, and scenic heritage. In so doing, Redlands will preserve its unique character and beauty, foster community pride, conserve the character and architecture of its neighborhoods and commercial and rural areas, enable citizens and visitors to enjoy and learn about local history, and provide a framework for making appropriate physical changes.
- 3.20b Provide incentives wherever possible to protect, preserve, and maintain the City's heritage.
- 3.20c Foster an understanding and appreciation of history and architecture.
- 3.20d Encourage retention of the character of existing historic structures and urban design elements that define the built environment of the City's older neighborhoods.
- 3.20e Encourage retention of historic structures in their original use or reversion to their original use where feasible. Encourage sensitive, adaptive re-use where original use is no longer feasible.
- 3.20f Encourage preservation of and public access to significant scenic vistas, viewpoints and view corridors.

- 3.20g Coordinate preservation of historic resources with policies designed to preserve affordable housing.
- 3.20h Encourage consideration of urban design quality as well as safety when street or other public improvements are proposed.

3.21 Historic and Scenic Conservation Areas

Implementing Policies: Historic and Scenic Conservation Areas

- 3.21a Designate Historic and Scenic Districts and Urban Conservation Districts whenever areas are qualified and supported by a significant majority of the property owners.
- 3.21b Establish priorities for protection of potential districts based on both significance and endangerment. Seek to establish support of property owners in high priority areas.
- 3.21c Establish zoning regulations that implement Historic and Scenic Preservation policies.
- 3.21d Provide incentives to encourage preservation of large historic structures and conversion to multi family housing if preservation of original use is an economic hardship.
- 3.21e Establish guidelines and incentives for appropriate adaptive re use of historic structures.
- 3.21f Encourage the location of needed parking in interiors of blocks to minimize visual impact on streetscape and neighborhoods.
- 3.21g Limit parking area coverage and size of parking structures in order to maintain special qualities of streetscape.
- 3.21h Establish design guidelines for parking lots and structures that reduce visual impacts on neighborhood and streetscape.
- 3.21i Establish lot sizes for infill development that relate to existing lot sizes nearby.
- 3.21j Establish standards and incentives for preservation of scenic vistas.
- 3.21k Provide incentives and standards to encourage preservation of citrus groves.
- 3.21l Recognize and mitigate the ill effects of the following on historic areas:
 - Inappropriate commercial development;
 - Inappropriate scale, materials, setbacks and landscaping;
 - Interruption of the established street pattern;
 - Inadequate off street parking, where development of off street parking does not cause loss of historic buildings;
 - Excessive automobile traffic.
- 3.21m Encourage neighborhood groups to be actively involved in preservation.
- 3.21n Promote neighborhood organization and identity and foster neighborhood conservation programs, giving special attention to transitional areas next to commercial areas.

- 3.21o Pursue policies of street management to control traffic in such areas, because historic areas are especially vulnerable when threatened by too much traffic.
- 3.21p Where feasible, retain existing easements and rights of way for use as view points, turn outs, and scenic walkways.

3.22 City Property

Implementing Policies: City Property

- 3.22a Maintain and improve City-owned historic buildings and houses in an architecturally and environmentally sensitive manner.
- 3.22b Maintain and improve Redlands' streets, trees, streetlights, parkways, parks, stone curbs, and citrus groves in a manner that enhances the City's beauty and historic fabric.
- 3.22c Use exemplary design quality in new City construction, public works, and City signs.

3.23 Privately-Owned Historic Resources

Implementing Policies: Privately-Owned Historic Resources

- 3.23a Ensure that permanent changes to the exterior or setting of a designated historic resource are in keeping with the intent of the General Plan by requiring a Certificate of Appropriateness for such changes.
- 3.23b Seek creative solutions to the problem of preservation and maintenance of large houses.
- 3.23c Encourage appropriate adaptive reuse of historic resources in order to prevent disuse, disrepair, and demolition, taking care to protect surrounding neighborhoods from disruptive intrusions.
- 3.23d Consider noise, traffic, and residential privacy when approving non-residential uses in mixed-use zones where residential units are interspersed with non-residential buildings.
- 3.23e Endeavor, should demolition of a designated historic resource occur, to ensure that a building of equal or greater design quality and/or use of equal or greater benefit to the community be constructed. Require that archival-quality drawings and/or photographic records be prepared to document the historic resource.
- 3.23f Institute an architectural salvage program to preserve architectural artifacts from buildings that must be demolished.
- 3.23g Encourage the use of tax credits, donated easements, and other fiscal incentives for preservation.
- 3.23h Encourage energy conservation alterations that are compatible with preservation.
- 3.23i Encourage the highest maintenance of historic resources by pursuing funding programs to assist people in doing needed repairs, by requiring code compliance, and by providing information to homeowners as to how to maintain their property and where to go for assistance and advice.

3.24 New Development**Implementing Policies: New Development**

- 3.24a Encourage developers to construct new buildings and settings of such quality that preservationists of the future will wish to protect them. Encourage appropriate scale, materials, setbacks, and landscaping to enhance the City's beauty and historic fabric.
- 3.24b Establish design review guidelines for historic areas to ensure that new architecture will relate to and respect the environmental context.
- 3.24c Encourage compatibility of new land uses and new construction adjacent to buildings listed on the Inventory of Historical Structures. Construction should be physically and aesthetically complementary to the historic buildings.
- 3.24d Encourage historical depictions commemorating historic sites or events in Redlands' history. Such depictions could be incorporated into new commercial or rehab development projects. Historical depictions may be monuments, plaques, archaeological viewing sites, exhibits, or illustrative art works, such as sculpture, mosaics, murals, tile-work, etc.

3.25 Citizen Participation and Cooperation with Preservation Groups**Implementing Policies: Citizen Participation and Cooperation with Preservation Groups**

- 3.25a Encourage citizens to participate in public hearings on designation, Certificates of Appropriateness and Certificates of Hardship.
- 3.25b Encourage citizens to become involved in historic preservation by training them in survey techniques and involving them in the ongoing surveys of historic resources.
- 3.25c Cooperate with private organizations doing preservation work and serve as liaison for such groups.

3.26 Government Decision-Making**Implementing Policies: Government Decision-Making**

- 3.26a Protect residential, agricultural, and natural areas that may be eligible for designation by rezoning such areas and/or amending the zoning code to promote conservation of the existing built environment and agricultural and scenic areas.
- 3.26b Consider the effect of proposed amendments to the General Plan and Zoning Ordinance on preservation concerns. Consider amending the Zoning Ordinance to allow historic district overlays and historic building site overlays.
- 3.26c Consider adopting additional provisions which enable the Historic and Scenic Preservation Commission to review permanent changes to the exterior or setting of designated historic resources, require minimum maintenance, encourage designation of agricultural and scenic areas, and establish significant penalties for demolition without a permit.

- 3.26d Consider developing ordinance language and procedures to allow designation of thematic resources. Examples include thematic designation of works of architect Davis Donald; thematic designation of buildings from "boom period" (1886-1888); and thematic designation of buildings related to citrus industry.
- 3.26e Consider measures to prevent unnecessary demolition when development projects do not materialize.
- 3.26f Establish a list of potential historic resources, historic districts, citrus groves, palm rows, and historic scenic areas. Set up a priority system for designation and proceed with designation.
- 3.26g Make the Certificate of Appropriateness process as streamlined and efficient as possible while not slighting its duty to protect the character of the neighborhood or structure in question.
- 3.26h Encourage public participation in the process for evaluating and preserving historic and scenic resources.
- 3.26i Support a strong and effective Historic and Scenic Preservation Commission as a key element in decisions affecting historic and scenic resources.
- 3.26j Work toward preventing the displacement of elderly and lower income people from their homes in historic areas.
- 3.26k Seek and promote use of funding sources to establish low interest loans or grants for rehabilitation in low income historic neighborhoods and for maintenance of older citrus groves.
- 3.26l Maintain a preservation program with adequate City staffing and integrate preservation concerns into government decision making.
- 3.26m Establish clear and efficient procedures for processing historic property applications.
- 3.26n Ensure that public funds for rehabilitation are not used to the detriment of private or public historic resources.

The City receives Community Development Block Grant (CDBG) funds and other federal and state funds. Although these have not been used for rehabilitation, they could be, and it is possible that Redlands might obtain funding for rehab in the future.

3.27 Commercial and Redevelopment Areas

Implementing Policies: Commercial and Redevelopment Areas

- 3.27a Encourage removal of inappropriately altered or tacked-on facades on commercial buildings and restoration of original facades.
- 3.27b Encourage new construction that ties the new with the old in a harmonious fashion, enhancing the historic pattern.
- 3.27c Encourage preservation, maintenance, enhancement and reuse of existing buildings in redevelopment areas, retention and renovation of existing residential structures, and relocation of existing residential structures within the City where retention on-site is not feasible.
- 3.27d Coordinate Redevelopment Agency planning with the regular city planning process.

3.28 Education and Public Relations**Implementing Policies: Education and Public Relations**

- 3.28a Seek to educate the general public about Redlands' heritage and to educate owners of historic properties about how to rehabilitate and maintain their property.
- 3.28b Where inappropriate alterations have been made, endeavor to explain how such alterations detract from the property, how they may be removed, and the economic and cultural benefits of restoration.
- 3.28c Encourage involvement of Redlands' schools, adult education classes, and the University of Redlands in preservation programs and activities.
- 3.28d Continue to work with local newspapers to inform the community of Historic and Scenic Preservation Commission and other preservation activities.
- 3.28e An advisory body such as the Parks Commission shall continue to educate the public regarding the care of small citrus groves in older residential areas.
- 3.28f Print informational brochures explaining the preservation process and preservation techniques to the public.
- 3.28g Issue awards and commendations as appropriate to owners of historic and scenic resources who have done particularly admirable rehabilitation and to others who have made special contributions to the preservation effort.
- 3.28h Make special efforts to reach the business community and to inform its members about Redlands' heritage and the opportunities it presents.
- 3.28i Promote Redlands' image, its cultural life, and its outstanding architectural, historic, and scenic resources, in order to attract new business and tourism to the City.
- 3.28j Work with civic groups who wish to hold meetings to educate their members about preservation.

3.29 Agricultural and Scenic Areas**Implementing Policies: Agricultural and Scenic Areas**

- 3.29a Encourage preservation of citrus groves and other agricultural areas that are designated as having cultural or scenic significance. Encourage retention of existing privately owned citrus groves of all sizes, especially in historic neighborhoods.
- 3.29b Identify existing agricultural areas, scenic views, vistas, and streetscapes, including mountain, canyon, and valley vistas, urban view corridors, focal points and focal buildings.
- 3.29c Define and implement measures to preserve citrus groves, scenic views, vistas, and streetscapes for the community.

3.30 Preservation of Older Neighborhoods**Implementing Policies: Preservation of Older Neighborhoods**

- 3.30a** Promote neighborhood preservation and stabilization.
- 3.30b** Permit densities, design, and uses that will help preserve the character and amenities of existing older neighborhoods.
- 3.30c** Discourage changes in residential areas that would disturb the character or clearly have a destabilizing effect on the neighborhood.
- 3.30d** In multiple family areas with a predominance of houses built as single family residences, create "tailor-made" zones that will protect the single family appearance of the neighborhood.
- 3.30e** In transitional areas, allow no new uses that would contribute to expansion of commercial uses and subsequent deterioration of neighborhoods.
- 3.30f** Encourage shared parking or in-lieu parking in older neighborhoods.
- 3.30g** Encourage preservation of historic public and private improvements, such as street curbs, street trees, specimen trees, street lights, hitching posts, masonry walls, unpaved and early paved sidewalks, etc.

4.0 LAND USE ELEMENT

REDLANDS GENERAL PLAN

4.0 LAND USE ELEMENT

Land use, narrowly defined, refers to how a particular site is being utilized, whether residential, commercial, industrial, institutional or open space. The Land Use Element is the core of the General Plan. It consists of text, policies, and a land use plan referred to as the General Plan Diagram, that designates proposed general location and extent of each land use category. It is intended that this section serve as the basis for establishing compatible land use relationships and orderly growth.

4.10 Land Use Issues

Much of the General Plan Citizens' Committee meeting time was spent determining discussion of the appropriate amount and intensity of development. Major issues included:

- Population holding capacity
- Amount and location of park and open space land (See Open Space and Conservation Element)
- Medium density share of housing
- Location of additional medium-density housing
- Nonresidential intrusion in historic neighborhoods
- Sensitive development of hillside areas (Live Oak and San Timoteo Canyon)
- Effect of employment concentration in *East Valley Corridor Specific Plan* on traffic.

Population and Job Holding Capacity

The Planning Area at General Plan buildout will accommodate approximately 90,000 residents and enough nonresidential floor area for more than 100,000 jobs. Table 4.1 shows the Existing Development and General Plan Holding Capacity. The General Plan buildout represents a 62 percent increase in the planning area's 1994 population of 66,000 residents and a 320 percent increase to the estimated 26,000 existing jobs.

4.30 Land Use Classifications

The General Plan Diagram, GP Figure 4.1, depicts 15 16 categories of land use: rural living; very low density; low density; low medium density; medium density; high density; office; commercial; commercial/industrial; light industrial; public/institutional; parks/golf courses; agriculture; flood control/construction aggregates/ conservation/habitat preservation; resource preservation; and resource conservation. A Housing Conservation Overlay is also used. All land within the planning area has been mapped to reflect the proposed use of land when the City is built out or fully developed.

The General Plan Diagram reflects a variety of considerations in determining the most likely future development patterns. These considerations are:

1. Existing land use
2. General Plan policies
3. Existing zoning and approved development plans
4. Existing specific plans and general plan amendments
5. Environmental constraints
6. Existing and proposed transportation systems
7. Availability of utilities (i.e., water, sewer, gas and power)

The General Plan Diagram also reflects the proposed street network.

1. INTRODUCTION

The purpose of this study is to investigate the effects of the proposed system on the performance of the system. The study is divided into two main parts: a theoretical analysis and an experimental evaluation. The theoretical analysis is based on the principles of the system and the experimental evaluation is based on the results of the experiments.

2. THEORETICAL ANALYSIS

The theoretical analysis is based on the principles of the system and the experimental evaluation is based on the results of the experiments. The theoretical analysis is based on the principles of the system and the experimental evaluation is based on the results of the experiments.

- 1. Theoretical analysis of the system
- 2. Experimental evaluation of the system
- 3. Results of the experiments
- 4. Discussion of the results
- 5. Conclusion

3. EXPERIMENTAL EVALUATION

The experimental evaluation is based on the results of the experiments. The experimental evaluation is based on the results of the experiments. The experimental evaluation is based on the results of the experiments.

4. RESULTS

The results of the experiments are presented in this section. The results of the experiments are presented in this section. The results of the experiments are presented in this section.

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- 1. Results of the experiments
- 2. Discussion of the results
- 3. Conclusion
- 4. References
- 5. Appendix

The results of the experiments are presented in this section. The results of the experiments are presented in this section. The results of the experiments are presented in this section.

**GP TABLE 4.1
EXISTING DEVELOPMENT AND GENERAL PLAN HOLDING CAPACITY**

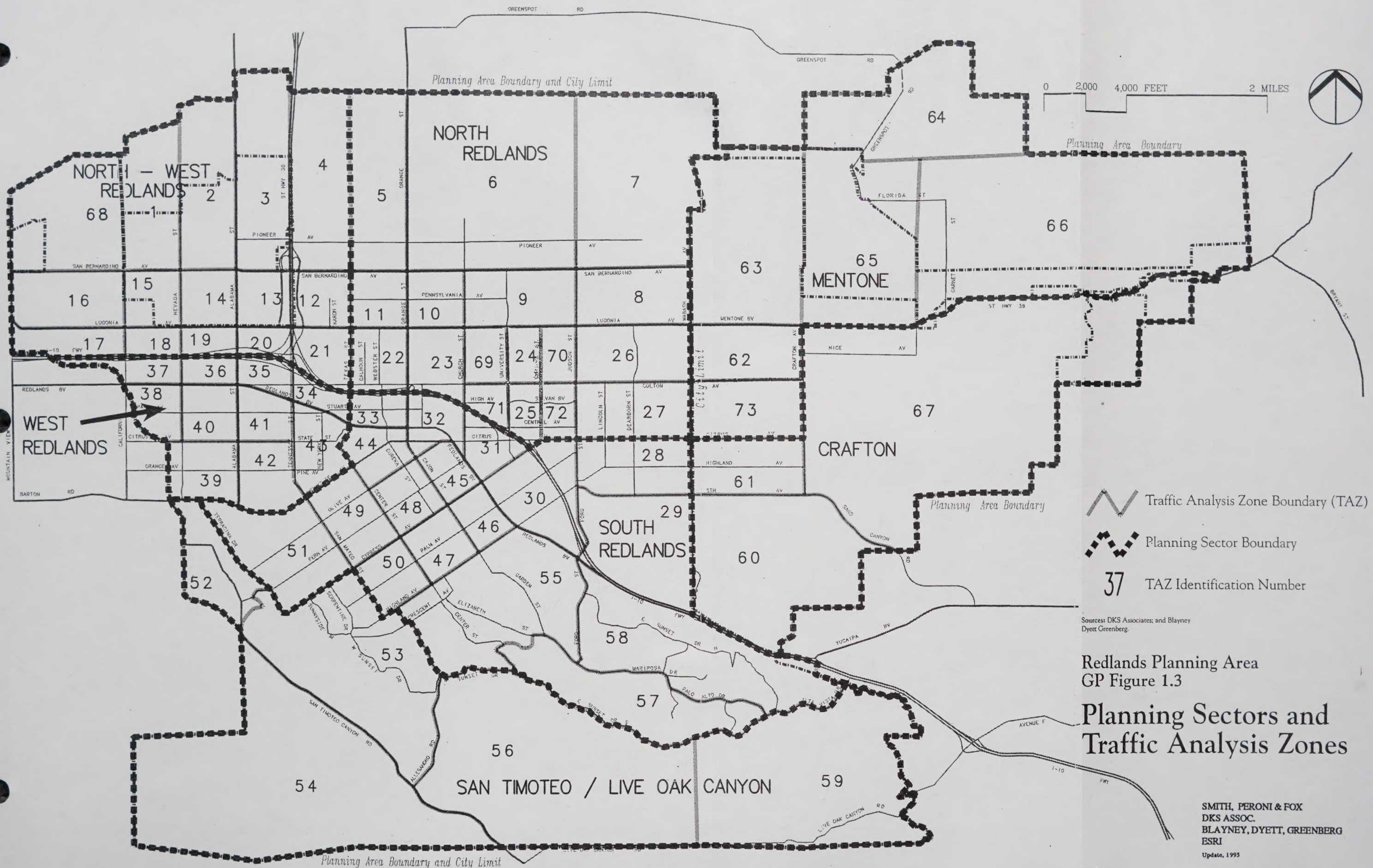
RESIDENTIAL HOUSING (dwelling units)					NON-RESIDENTIAL FLOOR AREA (thousand square feet)			SCHOOL ENROLLMENT (students)		
LOW DENSITY	MED/HIGH DENSITY	MOBILE HOMES	TOTAL		COMMERCIAL	OFFICE	INDUSTRIAL	ELEMENTARY	SECONDARY	UNIVERSITY
Existing 1994 Development (by Planning Sector)										
Northwest Redlands	221	72	5	298	194.84	371.19	715.74	168	143	0
North Redlands	6,082	2,570	961	9,613	235.84	164.44	85.03	3,029	1,267	1,508
South Redlands	7,602	2,582	49	10,233	952.41	1,381.68	0.00	3,612	5,556	0
West Redlands	166	2,442	35	2,643	1,540.93	361.99	1,492.51	279	931	0
San Timoteo Live Oak Canyon	1,244	16	21	1,281	0.00	144.18	0.00	0	0	0
Crafton	565	111	272	948	18.73	14.27	42.69	0	0	0
Mentone	1,295	593	2	1,890	156.56	0.00	951.66	605	0	0
TOTAL	17,175	8,386	1,345	26,906	3,099.31	2,437.75	3,287.63	7,693	7,897	1,508
General Plan Buildout (by Planning Sector)										
Northwest Redlands	189	235	5	429	4,752.83	6,931.42	15,259.74	168	143	0
North Redlands	7,372	3,390	961	11,723	335.34	164.44	1,140.23	3,411	1,267	2,000
South Redlands	8,368	3,628	18	12,014	1,082.23	1,758.44	174.18	4,529	5,556	0
West Redlands	75	3,389	3	3,467	2,161.22	1,035.65	3,741.82	279	931	0
San Timoteo Live Oak Canyon	3,050	16	21	3,087	0.00	144.18	0.00	770	0	0
Crafton	2,030	111	272	2,413	18.73	14.27	42.69	770	0	0
Mentone	2,509	593	179	3,281	295.85	0.00	1,283.33	800	2,687	0
TOTAL	23,593	11,362	1,459	36,414	8,646.20	10,048.40	21,641.99	10,727	10,584	2,000

Sources:

1. Residential housing based on 1990 Census, Assessors Data, and ESRI acreage figures.
2. Nonresidential floor area based on ESRI acreage figures, City of Redlands Building Department information, and field reviews.
3. School enrollment figures based on information from Redlands Unified School District, University of Redlands, and private schools.

Buildout Population

Number of Households @ 2% vacancy	35,686
Household Population @ 2.76 persons/household	98,493
Group Quarter Population @ 3.2% of household pop.	3,152
Total Buildout Population	101,644





The following descriptions apply to land uses indicated on the General Plan Diagram. The legend on the Plan Diagram is an abbreviated version of the descriptions. The land use classifications are adopted as General Plan policy and are intentionally broad enough to avoid duplicating the City's zoning regulations. The General Plan Diagram, which is a graphic representation of City policies regarding growth and development, is to be utilized in conjunction with the policies contained in the General Plan as a guide to decision making. The General Plan Diagram should not be confused with a zoning map which delineates districts of the zoning ordinance wherein specific uses of the land and associated development regulations are prescribed. More than one zoning district may be consistent with a single General Plan land use category, and some revisions to the zoning regulations will be necessary to implement the General Plan.

State law requires the General Plan to establish standards of population density and building intensity for each land use classification. For nonresidential uses a maximum permitted ratio of gross floor area to site area is specified. The Floor Area Ratio (FAR) is a broad measure of building bulk that controls both visual prominence and traffic generated. Residential population density is expressed as housing units per gross acre (See Glossary definition) instead of units per net acre, the measure used by the 1972 General Plan. The net densities are higher than equivalent gross densities because street area is omitted from the calculation.

The density/intensity standards do not require the City to approve development projects at the top of the density or intensity range for each classification. Zoning regulations consistent with General Plan policies and/or site conditions may reduce development potential. Gross density standards and assumed averages for residential categories are listed below. Table 4.2 shows maximum FAR standards for nonresidential uses.

Table 4.2 - FLOOR AREA RATIOS			
	COMMERCIAL	OFFICE	INDUSTRIAL
General Plan except as specified below	.30	.40	.45
Downtown Redlands (standards)	2.00	2.00	---
East Valley Corridor Specific Plan Area (standards)	.25-.60	.60-.90	.80-1.20

Maximum residential densities are per gross acre of developable land under 15 percent slope, provided that at least one housing unit may be built on each existing legal parcel designated for residential use. Second units are permitted by local regulation and State-mandated density bonuses are in addition to densities otherwise permitted. Hillside Overlay provisions of the Redlands Municipal Code are applied in calculating population holding capacity of the General Plan.

Assumptions used to calculate probable office, commercial, industrial, housing unit and population holding capacity at buildout are lower than the maximum theoretically possible under the General Plan. Experience has shown that projects, due to physical constraints (street ROW, easements, fault zones, flood control facilities, etc.), do not build to the maximum intensity or density as permitted by the General Plan or zoning code. To develop a master plan based upon the theoretical maximum allowed by a General Plan designation or zoning code classification would overstate the ultimate buildout of the City of Redlands and not portray an accurate picture of anticipated development. Therefore, specific assumptions to replicate actual conditions have been applied to develop a "credible worst case scenario" at buildout. Assumptions are specified in MEA Appendix A, Buildout Land Use Assumptions.

A number of development options are available in the City of Redlands. These options are discretionary and include: Planned Residential Developments (PRD) and Specific Plans. Specific details on appropriate use, requirements and guidelines for these development options are found in the Zoning Regulations of the Redlands Municipal code.

Planned Residential Developments (PRD) - The General Plan recognizes that greater flexibility may be allowed in the design and arrangements of housing by permitting a project containing a mixture of housing types. The principles established for Planned Residential Development (PRD) in addition to the applicable General Plan policies consist of:

- The overall density of housing units within a project shall not exceed the density established by the General plan.
- The design of the project will not adversely affect adjacent residential uses or other sensitive land use areas.
- The arrangement of structures and circulation system will provide usable, efficient, and aesthetically desirable open areas for recreation and outdoor living.
- Planned residential areas shall provide usable open space for the residents on individual sites and in public open space.
- Conservation of existing citrus groves and the encouragement of new groves by allowing PRD's in agricultural areas.

Planned Unit Developments (PUD) - Planned Unit Developments or mixed land uses functionally integrate a variety of residential, commercial, and light industrial uses within a physically compact area. In a time of escalating costs, mixed use development offers benefits in energy use, reduced costs associated with construction and provision of community support facilities, and the conversion of land within the City. By bringing shopping, employment and residential uses physically closer, travel costs and air pollution in terms of fuel consumption and travel can be reduced. Utilizing Planned Unit Development is one method of accommodating projected increase in population and commerce on a finite amount of land, while still maintaining the high quality of living found in the City of Redlands. The Municipal Code does not presently have provisions for PUD's and therefore an amendment to the code would be necessary to implement this tool.

Specific Plan - Specific Plans are a tool to implement the General Plan. Specific Plans are sub-area plans which provide the opportunity to master plan an area by including financial, environmental and development procedures. Specific Plans are regulatory documents adopted by the City which refine general plan policies for specific areas. Specific Plans allow the community to package a set of land use specifications and implementation programs tailored to the unique characteristics of a particular site. Such plans are extremely useful for sites with environmental and/or fiscal constraints.

4.40 Residential Land Use Classifications

Rural Living - The Rural Living category designates up to .4 unit per gross acre (1 unit per 2.5 gross acres) on slopes 0 to 15 percent and .2 unit per gross acre (1 unit per 5 gross acres) on slopes greater than 15 percent. The intent of this land use category is to retain sufficient open area to preserve natural features of the area and/or encourage agricultural use of the majority of each parcel.

Very Low Density - The Very Low Density category designates from 0 to 2.7 units per gross acre on slopes 0 to 15 percent. On slopes greater than 15 percent to 30 percent the maximum density is .4 unit per gross acre (one unit per 2.5 acres). On slopes greater than 30 percent the maximum density is .2 unit per gross acre (one unit per 5 acres). Smaller infill lots which are consistent with the prevailing development pattern may be approved. The intent of this land use category is to encourage limited, low-density residential development. General Plan policies encourage the retention of natural hillside areas, and minimize grading and vegetation removal.

Low Density - The Low Density category designates from 0 to 6.0 units per gross acre. This category is not intended to be applied in areas where slopes exceed 15 percent. The intent of this land use category is to provide for areas of single family residential developments. The General Plan provides a wide range of densities to encourage development appropriate to the site. Consistent lot sizes include 7,200 square feet (6.0 units per gross acre) and 10,000 square feet (4.3 units per gross acre).

Low Medium Density - The Low Medium Density category designates from 0 to 8 units per gross acre. The intent of this land use category is to provide for a continuation of the land uses at densities compatible with existing development in the Mentone area and in the vicinity of the University of Redlands.

Medium Density - The Medium Density category designates from 0 to 15.0 units per gross acre. The intent of the Medium Density land use category is to provide areas for the development of attached, detached and/or mixed residential uses with a range of densities and housing types. Areas designated Medium Density are generally more suitable for development in the low-to mid-level of the permitted density range for this category.

High Density - The High Density category designates from 0 to 27 units per gross acre. The intent of the High Density land use category is to provide for the development of attached, detached and/or mixed residential uses with a range of densities and housing types. Areas designated High Density are generally more suitable for development at the mid- to high-level of the density range for this category. No proposed development project with density levels in excess of 18 dwelling units to the acre or a structure in excess of two stories or greater than 35 feet in height shall be approved unless the following mandatory findings are made and the development project is approved by four-fifths (4/5) vote of the total authorized membership of the City Council:

1. There are substantial and overriding economic or social benefits to the City and its residents and its residents and taxpayers from the proposed density or height increase.
2. The proposed density or height increase will not cause adverse environmental impacts, either individually or cumulatively, directly or indirectly.
3. The proposed density or height increase will not have a growth-inducing effect on other property.
4. The resulting use will be compatible with uses on adjacent land.
5. The proposed density or height increase will not require substantial expansion of public infrastructure, facilities or services.

In all residential land use categories, density bonuses may be applied (as required by State law), when a percentage of the units are reserved for low income households and/or senior citizens.

Housing Conservation - The Housing Conservation designation functions as an overlay to the underlying General Plan land use category with special provisions allowing certain types of existing nonconforming land uses. The intent of the Housing Conservation overlay is to provide for the retention and maintenance of existing higher density residential development while restricting construction of new higher density development in key areas of historic value where lower densities predominate. Two areas have received this overlay designation, one low density residential area north of the I-10 freeway and east of Orange Street and one medium density residential area south of the downtown.

The City's residential neighborhoods are diverse in age, lot size, house size, dwelling type, and site design. The General Plan calls for conservation of mature neighborhoods and proposes new standards for developing neighborhoods in North Redlands. Review the City Design and Preservation Element, Chapter 3 for policies related to Design and Historic and Scenic Preservation. See the Housing Element Summary, Section 6, for policies relating to housing needs.

Guiding Policies: Residential Areas

- 4.40a** Maintain the predominant single-family residential character of Redlands.

The Plan maintains the dominant share of Low-Density and Very-Low-Density housing.

- 4.40b** Conserve older neighborhoods because they provide an essential component of the housing stock and are the primary component of Redlands' urban character.
Related policies are in Section 3, City Design and Preservation, and Section 6, Housing Element Summary.
Older homes constitute most of the housing supply affordable by families of moderate or lower income.

- 4.40c** Conserve existing citrus groves and encourage planting new ones along street frontages to be developed.

The result can be a significant presence of citrus, no loss of housing units, cleaner air, and a quieter living environment near arterial streets. See also policies in Section 7.41, Agriculture.

- 4.40d** Encourage a variety of housing types to serve all economic segments of the community.

See also Section 6, Housing Element Summary.

- 4.40e** Increase the variety of lot sizes in North Redlands.

- 4.40f** Improve density and grading standards designed to preserve the natural appearance of steep hillsides and ridges.

- 4.40g** Locate High and Medium-Density development near regional access routes, employment centers, shopping areas, and public services.

- 4.40h** Encourage construction of small single-family homes on small lots as an affordable housing solution.

- 4.40i** Encourage incorporation of residential units in Downtown mixed-use projects.

This is consistent with the Master Action Plan (1989) and the Downtown Redlands Specific Plan (Specific Plan No. 45) adopted in June, 1994.

- 4.40j** Plan for continued operation of mobile home parks.

Redlands' mobile home parks are a major source of affordable housing and are generally well-integrated with their residential neighborhoods.

- 4.40k** Take advantage of the desirable residential environment that can be provided among citrus groves to preserve agricultural land that otherwise would be subject to strong development pressures.

Crafton exemplifies a prime environment for homes in citrus groves.

- 4.40l** Consider approval of Medium-Density residential development proposals at appropriate locations within the East Valley Corridor (EVC) Special Development District.

The General Plan does not project residential development within the EVC, nor does it include schools or parks to serve residential areas. However, substitution of residential development for business park would reduce projected traffic congestion. Peak hour traffic generated by each acre of Medium-Density residential development would be about 25 percent of that resulting from the alternative combination of office, retail, and industrial uses. About 10 to 20 percent of employed residents would be likely to work within the EVC.

- 4.40m** Establish a range of residential densities and development standards which encourage a mix of housing types.
- 4.40n** Protect residential neighborhoods by establishing policies and standards which discourage incompatible uses.
- 4.40o** Establish guidelines which will encourage better neighborhood design.
- 4.40p** Encourage underground utilities in all new residential development.

Implementing Policies: Residential Areas

- 4.40q** Plan for a housing mix at buildout consisting of 75 percent single family dwelling units and 25 percent multi-family dwelling units.
- 4.40r** Consider amending the Zoning Ordinance and East Valley Corridor Specific Plan to eliminate or modify amortization provision of uses, particularly residential uses, and to allow reconstruction at the same density or intensity in the event of destruction by fire or natural disaster.

Zoning consistent with the General Plan will create nonconformity affecting the insurability of some properties unless the Ordinance is amended. The guiding policies of the General Plan do not preclude maintenance of these uses at their present density or intensity.

- 4.40s** No land undeveloped as of March 1, 1997 and designated in whole or in part as Urban Reserve or Urban Reserve (Agricultural) in the Redlands General Plan in effect as of June 1, 1987, and/or any land parcel that was in active agricultural production on November 3, 1986 regardless of zoning, shall be re-designated or rezoned to permit residential density greater than the Estate Residential (R-E) classification, as the same existed on June 1, 1987, in the Redlands City Zoning Ordinance, unless the following mandatory findings are made and the re-designation or rezoning is approved by four-fifths (4/5) vote of the total authorized membership of the City Council.
1. There are substantial and overriding economic or social benefits to the City and its residents and taxpayers from the proposed density increase.
 2. The proposed density increase will not cause adverse environmental impacts, either individually or cumulatively, directly or indirectly.
 3. The proposed density increase will not convert viable agricultural land to non-agricultural uses.
 4. The proposed density increase will not have a growth-inducing effect on other property.
 5. The resulting use will be compatible with uses on adjacent land.

6. The proposed density increase will not require substantial expansion of public infrastructure, facilities or services.

The R-E zone specifies the minimum size of lots is 14,000 square feet and for a PRD within an R-E zone a maximum density of 3 units per acre.

- 4.40t** On slopes 15 percent or greater, buildings should be designed to accommodate the topography and minimize grading.

Stepped footings, multiple floor levels, and limited usable outdoor area may be essential to maintaining natural appearing hillsides. See also Policy 8.50i in Section 8.50, Seismicity, Geology, and Soils and Policy 3.10e, City Design.

- 4.40u** Devise urban service standards that are financially feasible and suitable for Rural Living areas.

Current City standards are appropriate for lots smaller than the 2.5-acre minimum for sites under 15 percent slope in Rural Living areas. With an expected average of one house per 5 acres, it is possible to retain existing narrow roads and stone curbs in Crafton, and to substitute on-site water storage and sprinklers for a complete urban fire suppression system.

- 4.40v** Devise and adopt standards for preservation of existing citrus frontages and for creating new ones.

- 4.40w** Develop a Planned Unit Development (PUD) Ordinance which develops standards for the use of a PUD development option.

- 4.40x** Review and comment on new development proposals when routed by adjacent jurisdictions through the environmental review process to identify and avoid potential land use conflicts.

4.41 Southern Area Hills and Canyons (Live Oak and San Timoteo Canyons)

The southern area of the City of Redlands is mainly rural, hilly and undeveloped. In the mid-1980's, the City adopted the Southeast Area Plan (General Plan Amendment No. 38) to ensure development consistent with the natural environment. The plan, described in 4.42, provides a background for the site analysis issues to be considered for development in the Live Oak and San Timoteo Canyon areas.

Implementing Policies: Southern Hills and Canyons

- 4.41a** Encourage the use of Planned Residential Developments (PRD's) and Specific Plans in San Timoteo and Live Oak Canyon areas.

- 4.41b** The policies, plans and requirements of the Southeast Area Plan (Section 4.42) apply to portions of Live Oak Canyon and San Timoteo Canyon as delineated in the General Plan.

These policies pertain to the geographic area generally identified as Sunset Drive on the North, Alessandro Drive on the West, Live Oak Canyon Road on the South, and South Lane on the East.

- 4.41c** Permit the transfer of densities within a specific parcel of property and clustering of residential development to areas under 15 percent slope through the use of Planned Residential Developments (PRDs), Conservation Easements, and Specific Plans.

- 4.41d** Major topographic features within the San Timoteo and Live Oak Canyon areas shall be preserved, maintained and where possible, enhanced. Major ridgelines should not be modified although development on a ridgeline may be allowed where there is offsetting need demonstrated.

For more detailed discussion of this policy refer to Section 4.42.

- 4.41e** Within the Live Oak Canyon and San Timoteo Canyon areas, the canyon walls immediately below major ridges and vegetation thereon shall be preserved and enhanced where appropriate. Slopes that are in excess of 50% shall be preserved intact except for public safety needs.
- 4.41f** Within the Live Oak Canyon and San Timoteo Canyon areas, where proposed development abuts an area of significant natural vegetation it shall be separated by a fuel modification zone which contains an all weather access roadway and water supply system having fire flow capacity. The Fire Department may modify these standards based on specific site considerations and use of alternative fire protective measures.
- 4.41g** Preserve natural vegetation and wildlife areas to create wildlife corridors extending throughout the Live Oak Canyon and San Timoteo Canyon areas.
- 4.41h** The San Timoteo watercourse should be preserved and enhanced as the backbone of a lineal parkway/activity corridor extending throughout the canyon.
- 4.41i** That portion of San Timoteo Creek, as defined by its floodway easements or flood control fee title, lying within the corporate boundary of the City is hereby declared to be Resource Preservation land and shall be preserved for the purposes of promoting wildlife preservation, open space recreation and water conservation. No fencing or other barriers shall be permitted in this Resource Preservation area that impede or limit access to the free crossing or use of the area by wildlife or its use for open space recreational purposes.
- 4.41j** All parcels of land encompassed within the area identified on GP Figure 4.5 are subject to the residential density limitations set forth in Section 4.42m and are hereby designated as Resource Preservation as defined in Section 4.96.

4.42 Southeast Area

In 1988, the City Council approved the Southeast Area Plan, which covered the southeastern portion of the City. That Plan is now contained in this section of the Land Use Element, and in the section of the Circulation Element dealing specifically with the Southeast Area. The previous stand-alone Area Plan was repealed at the time of the adoption of the 1995 update of the General Plan and replaced by this section.

The area covered by the Southeast Area Plan is bounded by Sunset Drive on the north, Alessandro Drive on the west, Live Oak Canyon Road on the south, and South Lane on the east, as shown in GP Figure 4.2. The following section of the Land Use Element contains background information and policies for the Southeast Area.

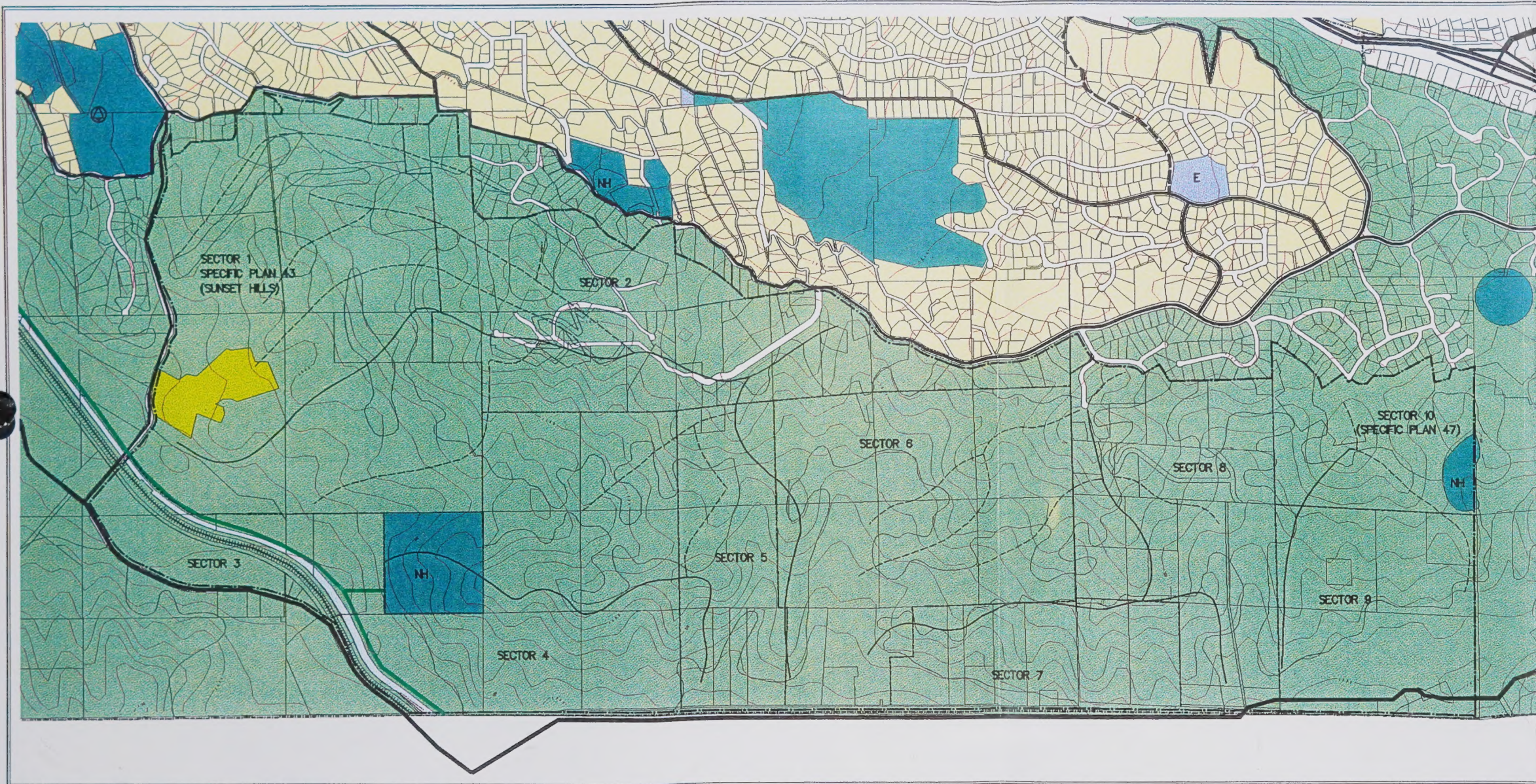
The following section of the Land Use Element contains the following components, which together comprise the Southeast Area Plan:

- Objective of the Southeast Area Plan
- Planning Sectors
- Definitions
- Site Analysis
 - Landforms
 - Development Suitability
- Issue Analysis
 - Fire Safety and Prevention
 - Watercourses
 - Soils/Geology

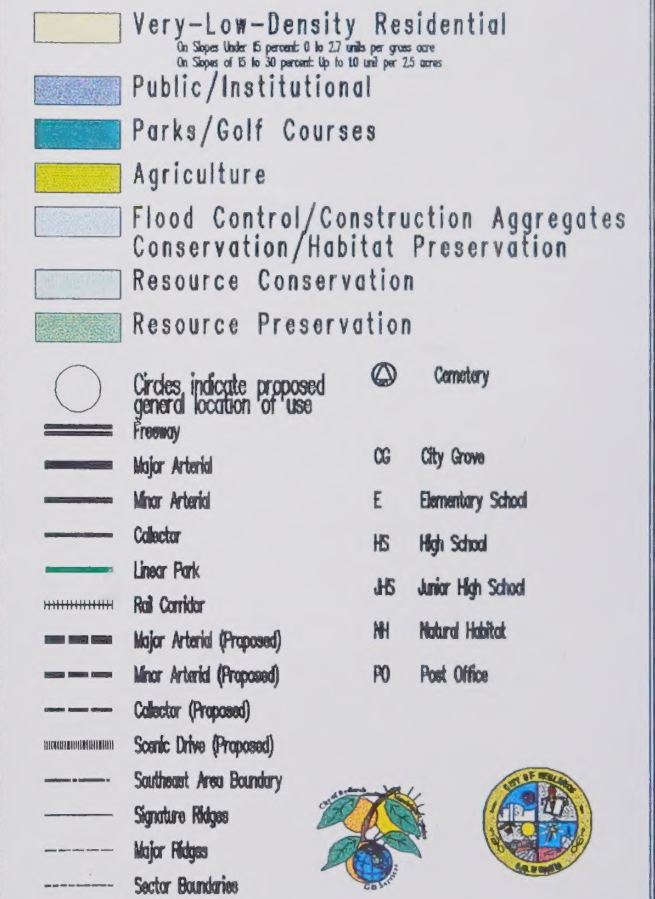
- Flora/Fauna
- Access
- Traffic *(Note: A complete discussion of traffic issues is contained in the Circulation Element)*
- Utilities/Public Improvements
- Community Identity
- Coordination with Other Community Plans
- The Southeast Area Plan
 - Overview
 - Land Use
 - Circulation *(Note: A complete discussion of traffic issues is contained in the Circulation Element)*
 - Recreation and Open Space
 - Fire Prevention/Public Safety
 - Watercourses/Drainage
 - Utilities
- Guiding Policies: Southeast Area

Objectives of the Southeast Area Plan - The Southeast Area Plan was developed to create a plan for future development of the Southeast Area which:

- Permits development
- Maintains the character of the area
- Minimizes grading
- Provides for orderly development of the area in a manner that mitigates the problems of circulation, drainage, sewage, disposal, fire flow and water supply
- Provides the framework of the viable implementation program to carry out the Policies contained in this section



CITY OF REDLANDS: SOUTHEAST AREA
SIGNATURE RIDGES / PLANNING SECTORS - Figure 4.3



0 250 500 1000 1500 2000 feet

March 5, 1998

The preparers of the Southeast Area Plan, commenting in the document on the future of the area, said, "[Put] another way, the fate of this area will no longer be left to chance."

Planning Sectors - The Southeast Area Plan identifies 10 subsectors, the Planning Sectors, as shown in GP Figure 4.3. Because of the number and complexity of the Planning Sectors, the Southeast Area Plan does not provide a detailed plan of development for each Sector. A specific plan shall be developed for each of these sectors consistent with the Guiding Policies in this section. Policy 4.42a (at the end of this section) requires the preparation of a specific plan for each of the Planning Sectors. *A specific plan shall not be a prerequisite for the approval of any residential development project within Planning Sector 2.*

Definitions - Because the Statement of Study Objectives for the Southeast Area consists of three directions Permit Development, Maintenance of the character of the area, and Minimizing grading which are subjective and relative and cannot be accurately quantified, the following definitions were developed and used to construct the Southeast Area Plan.

"Permit development" defined in the context of the Southeast Area Plan means that development is permitted, but limited in amount and in kind by the policies of this section of the General Plan. Permit development is further defined to mean that all parts of this area will hence forth be developed, maintained and/or managed to some degree.

"Maintenance of the character of the area" defined in the context of this effort means preserving the perceived character of the area by preserving and enhancing the signature features of the area.

"Minimizing grading" is defined as a general development concept in which a development project should be conceived and designed to use existing topography to the extent technically feasible, rather than designing a project in which extensive grading is used to modify the site to accommodate the project. In the Southeast Area, grading associated with the development shall minimize the modification of the perceived character of the area and shall favor individual, focused grading over mass grading. It should be noted that this does not prohibit mass grading concepts being applied in selective areas for valid reasons, so long as the grading does not significantly degrade or alter the perceived character of the area. It does dictate, however, that the necessity for any such mass grading must be real and supportable.

Area Analysis - Integral to the preparation of the Southeast Area Plan was an analysis of the Southeast Area. This consisted of an analysis of the landforms in the Southeast Area, the suitability of various slope gradients as "development sites," and the density of development which would be permitted in each slope category or area. Two issues are addressed in the following sections: 1) Landforms and 2) Development Suitability.

1. Landforms

General Discussion: The Southeast Area is generally an escarpment falling away from the northern ridgeline defined by Sunset Drive (referred to hereafter as the Sunset Ridge). The Southeast Area generally falls away to the south and west towards San Timoteo Canyon and Live Oak Canyon. The area is made up of a complex series of ridges and canyons.

Close examination of the topography of the area reveals a series of major ridges which define approximately nine major drainage basins. These ridges, their associated basins, the two boundary canyons, San Timoteo and Live Oak, and the flora and fauna thereon constitute the majority of the signature characteristic features of the Southeast Area.

If the Southeast Area is to maintain its perceived historical and natural character, the perception of these signature features must remain intact.

The purpose of this document is to provide a summary of the findings of the study. The study was conducted in order to determine the effectiveness of the proposed system. The results of the study are as follows:

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1. Introduction

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Policy 4.42b addresses preservation of signature features of the Southeast Area.

Signature Feature Discussion: In order to preserve and enhance the perceived character of the signature features, it is necessary to define the features which form this perception. The following analysis focuses on these features: the ridges, the canyon walls, and the canyon floors.

The easiest features to describe and quantify are the signature ridges. These ridges are those which define a significant edge, either in the foreground or at a distance. On-site observations and an examination of the topography of the Southeast Area led to the designation of five ridge formations as signature ridges. These ridges also separate the major drainage basins within the area. Signature ridges in the Southeast Area are shown in Figure 4.3.

Policy 4.42d deals with protection of ridges within the Southeast Area.

These basins between the signature ridges are designated signature basins.

The next element to be considered below the signature ridges is the canyon walls below. These walls are, with few exceptions, steep; many walls are in excess of 50% gradient. They are rugged and integral to our perception of the ridge above. Their rugged facades are, in fact, a major part of the ridge character. Thus, these walls (with few exceptions) should remain intact as landforms. Even minor intrusions into these walls would produce significant grading and would in most every case leave noticeable scars in highly visible locations.

Another feature of these walls is the vegetation growing on their faces. This vegetation forms a part of our perception of the wall and ridge since we actually see in many cases the vegetation, not the dirt beneath. Thus, the preservation and, even enhancement of this vegetation seems important to the maintenance of our perception.

Policy 4.42c deals with preservation of the canyon walls in the Southeast Area.

In addition to the signature ridges are the myriad of lesser ridges which thrust out of these major walls into the canyons below. These ridges and the canyons between are a part of the internal canyon perception, since they are perceived as being "in the canyon". As internal features they do not individually make signature statements, but collectively they do to some degree. Lesser ridges which are considered especially important due to their size or location are shown as major ridges on Figure 4.3.

Some of these ridges (a few in number) extend far enough into the canyon to become significant dividers between sub-sections within the canyon. Thus, they become second level statements within the canyon environment. Major modification of these forms will change the form of the internal canyon and should therefore be viewed as significant, and should not be permitted without valid offsetting reason.

On the other hand, most of these internal ridges are not predominant and their major visual statement is to appear as buttresses supporting the wall above. As such, their total removal would be significant, but the reforming of their lower extremities could leave their statement intact. Such reforming could in many instances increase and/or create adjacent canyon bottom area. Whether such reforming could be accomplished within the context of minimum grading would and should depend on the specifics of the given situation.

Policy 4.42d deals with the protection of ridges within the Southeast Area. These basins between the signature ridges are designated signature basins.

Policy 4.42e addresses modification of ridges which are not signature or major.

Canyon bottoms have been divided into two types: very narrow and broad.

There are two basic narrow canyon structures in the Southeast Area. First, the majority of the narrow canyon structures occur on the slopes leading down from the major and secondary ridges. These canyon bottoms are not a part of the external observer's perception because they are buried down within the canyons. The external observer sees a series of ridges close together and the narrow spaces between the ridges down in the canyon as a part of the canyon wall system, not the actual narrow canyon bottoms themselves. Thus, these bottoms are best seen from within the canyons themselves. To date, these canyon bottoms are typically seen by a very limited group of people, including mostly hikers and equestrians. As development occurs, this group will become dominated by the residents in the canyons. Because these narrow canyon bottoms are really not a part of the existing perception of the area, they can be modified to accommodate the proposed development without significantly interfering with the perceived character of the area.

Policy 4.42f deals with modifications to narrow canyon bottoms.

The second narrow canyon structure occurs primarily in one area and is highly visible. Specifically, this structure occurs in the northwest portion of the Southeast Area between Planning Sectors 1 and 2. This structure consists of a series of narrow ridges, all of about the same elevation, divided by steep narrow canyons running parallel to each other for a significant distance. The perception of this structure is of a procession of narrow ridges and steep canyons, not the narrow canyon bottoms within. This structure covers an area of some 100 to 120 acres, is readily visible from both Sunset and Alessandro, and is within the over 50% slope area previously discussed. Because of this, preservation of this characteristic feature is warranted.

Policy 4.42g addresses preservation of this specific ridge/canyon feature.

Live Oak Canyon and San Timoteo Canyon: These two canyons separately and together are signature elements of the area and therefore should receive specific attention.

Live Oak Canyon: The majority of this canyon is outside the sphere of influence of Redlands (and outside of San Bernardino County, since the county Line is approximately coterminous with the existing alignment of Live Oak Canyon Road). Nonetheless, this canyon and its character are important to this area of the city. Therefore, the City should act as a strong positive force in the planning for this area.

Policy 4.42h deals with development in the Live Oak Canyon area.

It seems clear that the existing roadway in Live Oak Canyon will be rebuilt and/or significantly improved in the near future to accommodate development to the immediate south in Riverside County. This roadway is designated as an "at-grade, 4-lane Arterial Highway" on the San Bernardino County Master Plan of Highways and as a "100-foot right of way Major Highway" on the Riverside County plan. Thus, the only questions are how soon will this upgrading and realignment occur and what form will it take. This issue should receive strong attention from the City of Redlands to ensure consistency with the Southeast Area Plan.

The form proposed is one which preserves the perception of the watercourse and the canyon character by creating a linear parkway with a watercourse forming the backbone, or centerline, of the roadway.

The mechanism to accomplish this would be to relocate Live Oak Canyon Road to border the watercourse rather than ignore and/or avoid it. Further, the watercourse itself should be preserved and enhanced by a planned right-of-way acquisition program, followed by a park improvement/tree planting program to enhance the watercourse signature characteristic statement.

The land between this linear parkway and the base of the hills and canyons to the north is relatively level and developable.

Policy 4.42i requires further, detailed study of Live Oak Canyon.

San Timoteo Canyon: This canyon is similar to Live Oak Canyon, but larger and more complex. Not only does this canyon contain an even more significant watercourse than Live Oak Canyon and a roadway of equal magnitude, it also contains one of the most significant manmade features on the Southeast Area: the mainline rail facilities.

These rail facilities are significant on an areawide basis because of the perception of the sight and sound of the passing trains. These sights and sounds are a signature characteristic of the area and, consistent with the basic premise of this study, should not be lost or hidden.

San Timoteo Canyon Road is shown on the San Bernardino Master Plan as "at grade, 4 lane Arterial Highway" and on the Riverside County Plan as a "110-foot-wide arterial highway (4 lane divided, minimum). Redlands should strongly advocate that these improvements support the signature characteristics present. If San Timoteo Road is realigned, the design should maintain and/or expand its alignment adjacent to the rail line to 1) protect the rail line, and 2) to allow greater viewing and enjoyment of the trains as they pass through the canyon.

In order to minimize traffic impact over Alessandro Road no matter how little the development in the Southeast Area San Timoteo should be structured to provide "easy access" to the I-10 Freeway. This could be accomplished by connecting San Timoteo Canyon Road to the I-10/California Interchange. Such a connection would result in only a very minor traffic load increase on San Timoteo, but could significantly reduce the loading on Alessandro and perhaps some of the other Sunset connections.

Policy 4.42j addresses the design of any future realignment of San Timoteo Canyon Road.

The San Timoteo Canyon watercourse is a graded channel throughout its length in the Southeast Area. This channel should, as in Live Oak Canyon, be the backbone of a linear parkway which includes the watercourse, an equestrian/hiking trail, bike/pedestrian paths, linear park improvements, and a parkside roadway. The parkside roadway envisioned serves the park and also the land uses to the north and west within Planning Sectors 1 and 4.

Policy 4.42k addresses the design of the San Timoteo Canyon watercourse as a backbone visual/recreational feature of the Southeast Area.

The sliver of land running between the rail line and the San Timoteo Creek watercourse presents a challenging land use opportunity which should not be lost. This area has limited land use possibilities and should, therefore, receive adequate attention to ensure a positive use if the existing citrus grove operation is ended. One use compatible with the character of the area for example, would be that of a combined retail-wholesale nursery operation fronting on Alessandro Road.

Policy 4.42l addresses land use for the land between San Timoteo Creek and the rail line.

Alessandro Road: Alessandro Road will require realignment and improvements even when applying very low density scenarios to the Southeast Area. A discussion of this roadway and its design is contained in the Circulation Element of this General Plan.

2. Development Suitability, a Gross Analysis

Traditionally, governing jurisdictions and to a large extent the developer community have viewed slopes in excess of a 25 to 30 percent gradient to be unsuitable for development in their natural condition. In most cases, unless such slopes can be mass graded into a more usable form, they are unsuitable for development, except for "custom solutions."

Thirty percent (30%) was used as the criteria for preparation of a gross analysis for the Southeast Area. This choice was made for two reasons. First, a 30% slope analysis was available at the time the Southeast Area Plan was prepared, and secondly, 30% produces a "worse case" result which is a more conservative way to analyze the issue.

The slope/development compatibility analysis was divided into slopes of 0 to 15% and 16 to 30%. The rationale for this is the recognition that as the gradient increases the grading design of the roadways more and more dictate the overall design solution. This occurs because when a roadway gradient exceeds 10 to 15% severe design constraints are required. Thus, the roadway design becomes the limiting factor and integration of the roadways into slope designs of over 20 percent necessitates significantly more and more circuitous routing and/or grading (usually both).

Coupled with this is the fact that the economics of development favor mass grading (solving the grading solution on a large scale, rather than by a series of individual site specific graded solution) as the gradient increases. Also, the economics of development favor mass grading on any given slope as the density of development increases.

Thus, "minimization of grading" dictates lesser densities on steeper slopes, even within designated development areas.

Policy 4.42m provides a slope-to-density ratio for the Southeast Area.

Issue Analysis - An important aspect of the creation of the Southeast Area Plan included the identification of a variety of issues specific to the area. The following issues were identified:

1. Fire Safety/Prevention
2. Watercourses/Drainage
3. Soils/Geology
4. Flora/Fauna
5. Access/Traffic
6. Utilities/Public Improvements
7. Community Identity, Internal and External
8. Coordination with Other Community Plans

These issues are discussed in the following sections.

1. Fire Safety and Prevention

The nature of the chaparral and sage vegetation in the Southeast Area is such that fires are a natural phenomenon. This reality results in the creation of a potential for disaster when development is permitted in close proximity to significant stands of this vegetation. This occurs because this vegetation not only burns, but burns fiercely. This is amplified by the fact that the longer the vegetation goes without a fire the more volatile it becomes, because the dead material collects beneath the live material. So long as fires do not occur, the amount of fuel present increases.

In response to this problem in both San Bernardino and Riverside Counties, comprehensive criteria for the design of the interface between inhabited areas and vegetational areas have been developed. Essential in all these criteria are:

- The need to develop fuel modification zones around inhabited areas,
- The need to provide access to the interface edge of the fuel areas,
- The need to, if at all possible, provide a water supply with fire flow capacity to the interface edge so defined.

Policy 4.42n addresses the provision of fire protection zones at the boundary between development and natural vegetation.

2. Watercourses

This issue contains two elements: drainage/flooding and aesthetics.

The issue of drainage and flooding is the easiest to define and understand because when isolated it is subject to an engineered solution assuming money is not a factor. The issue of aesthetics is no more difficult than drainage, but it is less easily perceived and therefore less well understood. When introduced into the drainage/watercourse discussion it becomes a constraint on the engineered solution to the quantitative flood problem. In summary, if the character of the canyon is to be preserved, then the character of the watercourse cannot be altered so as to destroy its contribution to the canyon character. Thus, the engineered solution must not only solve the flow problems. It must also ensure the character of the watercourse is protected and preserved. There are a variety of ways in which this can be accomplished, ranging from leaving the existing watercourse intact to totally relocating the watercourse alignment and creating a new "natural appearing" watercourse.

Policy 4.42o addresses the protection of the appearance of natural watercourses in the Southeast Area.

3. Soils/Geology

The soils found in the Southeast Area are primarily Hanford course sandy loam (HaC), Ramona sandy loam (RmE2), San Emigdio fine sandy loam (ScC), and Saugus sandy loam (ShF). These are all similar in character: moderately erosive in nature and suitable for moderate dry farming, pasture and citrus. In terms of agricultural productivity, these soils rank as follows, Grade 1 being most suitable and Grade 6 being least suitable:

Hanford (HaC)	Grade 1
San Emigdio (ScC)	Grade 1
Ramona (RmE2)	Grade 3
Saugus (ShF)	Grade 6

Source: Soil Survey of San Bernardino County, U.S.D.A. Storie Index Rating.

Grade 1 is described as "excellent and well suited to general intensive farming". Grade 3, "only fairly well suited". Grade 6, "soils and land types that are not suitable for farming".

Within the Southeast Area, the Hanford and San Emigdio soils (Grade 1, "excellent and well suited") are found in the San Timoteo, Live Oak, Alessandro and other large canyon bottom areas. The Ramona (RmE2, "only fairly suited") is found on several of the ridge top areas, primarily the larger rounded ridge tops such as the area adjacent to and south of the Fairmont/Edgemont area. The Saugus (Grade 6, "not suitable") is found on the steeper slope areas of the entire Southeast Area.

From the perspective of engineering compatibility or the suitability for development the U.S.D.A. report indicates the following:

Hanford (HaC) - offers only slight limitations to dwelling unit location and septic tank absorption.
Ramona (RmE2) - offers only slight limitations to dwelling unit location, but severe limitations to septic tank absorption due to moderately slow permeability.
San Emigdio (ScC) - offers only slight limitations to dwelling unit location and septic tank absorption.

Saugus (ShF) - offers severe limitations to both dwelling unit location and septic tank absorption due primarily to the inherent slopes.

With regard to geology, research indicates the existence of several minor and dormant faults running in a more or less east-west alignment within the Live Oak - San Timoteo Canyon area. To the south of and parallel to San Timoteo Canyon outside the Southeast Area is an active fault line.

In summary, it appears there are no soil or geology problems or conditions which are so severe as to preclude development of any significant portion of the Southeast Area. If the consideration of "minimal grading" is inserted, the situation changes. But, with the exception of grading, the soils and geology of the Southeast Area do not appear to present any major limitation to development. It should be noted, however, that the ridge top area adjacent to Fairmont/Edgemont appears to require an urban sewer system if developed, due to limitations on the use of septic tank/leach field systems in that area. With this note, it appears the normal soils and geology analysis done in conjunction with specific developments will be sufficient to handle localized soil and geology conditions which may exist.

On the other hand, it also appears that there exists several areas of Grade 1 agricultural soils which are of sufficient size as to perhaps warrant preservation consideration. In order of size these are:

1. San Timoteo Canyon, except for the watercourse itself, Planning Sector 3.
2. Live Oak Canyon, except the watercourse, and the southerly portion of Planning Sector 9.
3. Alessandro Canyon and the canyon bottom fingers related thereto, Planning Sector 1.
4. The canyon bottom in Planning Sector 8, and
5. The canyon bottom in Planning Sector 6.

Policy 4.42p addresses the preservation of agricultural uses in the Southeast Area.

4. Flora/Fauna

The predominant vegetation within the Southeast Area is the Chamise Chaparral and Coastal Sage Scrub communities. It has been noted that conditions in the Southeast Area could support certain sensitive plants, but to date none have been located. It has been further concluded that, due to the generally degraded and somewhat poor condition of the Southeast Area (from the standpoint of natural habitat), no sensitive plant communities are expected to be present (Expanded Initial Study, Tract 13025, March 13, 1986).

On-site examination of the vegetation indicates it is healthy but not significant as to size, variety, abundance, or vitality. The larger vegetation seems to be limited to Live oaks, eucalyptus and pepper trees. These seem to be few in numbers and individually scattered. There appear to be only two significant exceptions to this generality. In Planning Sector 10, on the Southeast Area boundary, there are numerous Live oaks located in close proximity, forming a "plain of oaks" effect. In Planning Sector 1, just below Sunset Drive, there is a stand of introduced eucalyptus in the canyon bottom.

Similarly, the animal life associated with the on-site vegetation does not appear to be particularly distinguished. It consists primarily of small reptiles and rodents and the smaller predators which prey on them. Evidence of only a very few larger animals, coyotes and deer, was found. This is not surprising, given the lack of vegetation both as food and as cover.

Policy 4.42q addresses preservation of on-site plants and animals.

5. Access

The manner in which the Southeast Area has been "historically" accessed from the surrounding areas and traversed internally is as much a part of the perceived character of the area as the signature ridges or canyons discussed earlier. Thus, the access ways, whether they be roadways or trails, follow and continue the perceived characteristic access pattern of the area.

Note: Discussion and policies related specifically to roadway access in the Southeast Area are contained in the Circulation Element of this General Plan.

Historically, in the days before mass grading was used to create developable areas, access routes were laid out in the field by someone by foot or horseback. This resulted in the selection of routes which were very sensitive to steepness of slope, and led to routes which followed the contours, moved up canyons, crossed over saddles, and traversed atop wider ridges. It is these characteristics which should be preserved as development of the Southeast Area is undertaken.

Historic access to the Southeast Area has occurred off the major surrounding roadways (San Timoteo Canyon Road, Alessandro Road, Live Oak Canyon Road), or down the ridges from Sunset Drive. This pattern is varied in some places where saddles or gentle ridges permitted easy passage up (and in some cases over) the ridge line.

Specifically, a Planning Sector by Planning Sector analysis indicates the following historic patterns:

Planning Sector 1: Primary access to the vast majority of the develop area within this sector has been up-canyon from Alessandro. There appears to have been some exception to this in that the most northerly ridge (the closest to Sunset) has been leveled off and access to this ridge top is down-ridge from a road leading off Sunset Drive.

Planning Sector 2: This is a plateau area where the finger ridges which extend to the west begin. As such, this elevated and developed area is attached to and related to Sunset ridge and takes its historic access from Sunset Drive.

Planning Sector 3: This Sector is located in San Timoteo Canyon and has historically taken access from San Timoteo Canyon Road and Alessandro Road.

Planning Sector 4 and 7: These two sectors appear very similar from an access point of view. Both are relatively steep escarpments tipping down to Live Oak Canyon. Both are characterized with several short narrow canyon fingers extending in from Live Oak. Because of the steep topography, it appears the historic pattern has been almost exclusively up-canyon from Live Oak Canyon.

Planning Sector 5: This canyon is narrow, steep and about 1/3 mile in length. Because of this it appears the historic access has been up-canyon from Live Oak Canyon.

Planning Sector 6: This canyon sector is one of the largest in the Southeast Area. Historically, this canyon appears to have been primarily accessed up-canyon from Live Oak. In more recent times it appears frequent access has also come down-canyon from Sunset Drive at Edgemont. Also, some access has been taken from Sunset Drive at approximately Vinton.

Planning Sector 7: (See Planning Sector 4, above)

Planning Sector 8: This canyon sector is smaller than Planning Sector 6, but appears to contain significant developable area. The historic access has been up-canyon from Live Oak with some access in from Sunset via several canyon heads. Recent developments in the area have left street stubs pointing down into the top of this canyon at these canyon heads. So, like 6, it seems the historical major access has come in from Live Oak with some lesser access from Sunset Drive.

Planning Sector 9: This sector consists of basically a series of rounded fingers emanating from a low peak location and spreading out towards Live Oak Canyon in a southerly direction. As such the primary historic access has been up-canyon and up-ridge to some extent from Live Oak. Because of the rounded nature of the internal ridges, some access has crisscrossed the Southeast Area. While the historic access to this sector has not been as focused as some of the others, it has been primarily in from Live Oak Canyon and primarily up-canyon.

Planning Sector 10: This sector is basically a relatively gentle sloping basin tipped towards Live Oak Canyon. Internally the canyon swings from a southerly line to a westerly line, narrows somewhat and then enters Live Oak. Given the gentle nature of the topography it is somewhat difficult to pinpoint an historic access focus. Nonetheless, it appears the primary access was up-canyon from Live Oak Canyon.

Policy 4.42r addresses access into each of the Planning Sectors in the Southeast Area.

Consistent with the discussion above, internal access within each Planning Sector should follow the natural contours as closely as safety considerations will allow. Access routes which require significant cuts and/or fills should be precluded. This will result in routings which are more curvilinear and undulating and "historic" in character, design and feel.

Policy 4.42s addresses internal access within each Planning Sector

Policy 4.42s is not intended to preclude appropriate mass grading solutions within the developable areas, rather it is intended to ensure the final product will continue to be perceived as natural and possessing an historic feel and flavor. Also, this is not intended to preclude the construction of connections necessary for safety or capacity. On the other hand, it does argue strongly against the idea of a roadway running perpendicular to the ridgelines (for example, or a roadway sliced up the canyon wall to reach the ridgeline).

6. Traffic

Traffic issues specific to the Southeast Area are addressed in the Circulation Element of this General Plan. That Element should be consulted for specific guidance on traffic and roadway issues not contained in this section.

7. Utilities/Public Improvements

Since the primary objective of the Southeast Area Plan is to preserve the perception of the historic and natural character of this area, it follows that public improvements and utilities in the area should not produce contrary results. This, in general, means these facilities should be installed in a manner either "invisible" (under ground), on "in character" with the historic character of the area (a relocated watercourse, for example.) Further, the aesthetics associated with the design of necessary "above ground" facilities should be rural and natural in flavor.

A highly visible element in this discussion will be the local roadways. Careful attention should be given to these roadways to ensure they have the design capacity determined appropriate and that they look and feel rural and natural.

A special note is appropriate here. One of the characteristics of Redlands over the years is that it has always been perceived as having higher quality than surrounding communities. A significant part of this statement has been made via the elegance of the streets within the town. As an example, streets in Redlands had curbs when

others didn't, and the city had wide avenues when others had narrow dirt roads. Carried over to the Southeast Area Plan, it seems these "rural/natural roads" should be of comfortable width and have a finished edge treatment which makes a quality impression.

Policy 4.42t requires that utilities and public facilities be designed to protect the character of the area.

8. Community Identity

The Southeast Area consists of a series of identifiable parts which together make up the whole. Each of these parts, though similar in many cases, has its own unique characteristics. This internal diversity characteristic is one of the overall perceived signature characteristics of the area. This diversity characteristic should be preserved as development of the area occurs.

Policy 4.42u addresses the preservation of signature characteristics within each Planning Sector.

9. Coordination with Other Community Plans

This issue was addressed in the creation of the Southeast Area Plan through input from other city departments, the counties of Riverside and San Bernardino, and the community (now the City) of Yucaipa. Consideration was also given for private plans in process for properties around the Southeast Area. This has been particularly true in reference to the proposed 6,250 acre mixed-land-use plan being developed for the property south across Live Oak Canyon. This plan (Oak Tree West) is proposing a major access point off of Live Oak Canyon Road and the development of approximately 12,000 dwelling units over the next 15 years.

The Southeast Area Plan - The following sections provide the details of the Southeast Area Plan. Policies applicable to the Southeast Area follow.

1. Overview

This planning effort for the Southeast Area focused on developing a compilation of logical and integrated general plan policy statements which provide guidance to specific planning efforts for each of the identified Planning Sectors.

The General Plan Map is intended to *conceptually* illustrate how policies could be implemented, not where specific features would be required, as in a Specific Plan. (See Exhibit 4.42.)

The following is a brief summary of how the basic General Plan Elements issues of Land Use, Circulation, Recreation and Open Space, Fire Prevention/Public Safety, Watercourses/Drainage, and Utilities, are addressed in the Southeast Area Plan.

2. Land Use

The following is a summary of land uses within the Southeast Area Plan:

Southeast Area Plan Land Use Summary

Open Space Areas		Area (Approximate)
Preserved natural open space		500 acres*
Developable Area		
Residential @ 0.1 0.2 DU per acre (1 DU per 10 acres 1 DU per 5 acres)	116 acres	
Residential @ 0.4 DU per acre (1 DU per 2.5 acres)	554 acres	
Residential @ 1 DU per acre	790 acres	
Recreation Area	50 acres	
Public Facilities**	44 acres	
Parks and Structured Open Space	25 acres	
Circulation (7.4% of developed areas)***	126 acres	
<i>Developable subtotal</i>	<i>1,705 acres</i>	
TOTAL AREA:	2,205 acres (approx.)	

Notes:

All figures in the table above are approximate and subject to refinement based on detailed studies.

** These acreage figures are estimates, based on a gross analysis of topography within the Southeast Area, and do not represent a commitment by the City to provide these lands in any particular amount or location.*

*** Includes railroad and flood control right of way.*

**** In this table, Developed areas are defined as those which will not remain in open space use.*

The most significant component of this land use plan is its approach to the preservation of the historic character of the area. The plan identifies the major *perceived* characteristic features of the area as the signature characteristics. The plan approaches all development proposals and requirements from the point of view of preserving these *perceived* signature characteristics.

Policies 4.42y, 4.42z, 4.42aa, and 4.42bb address protection of the character of San Timoteo and Live Oak canyons, both within and outside the City of Redlands.

Because of this, approximately 500 acres are proposed to be preserved as natural open space. The other land uses proposed are generally traditional in nature and extent. Residential land use is proposed as exclusively low density of a rural character. Other land uses result from the need to include certain recreational/open space uses. This has all been done in the context of preserving the historic natural character of the area.

Preserved Natural Open Space: Because the plan proposes a large amount of open space it is appropriate to indicate, in general terms, how this preservation could be accomplished.

First, in terms of acquisition there are a variety of tools available to the City which could be used to accomplish ultimate acquisition of such lands. It is recommended that a specific study be undertaken to develop a definitive acquisition program. Potential acquisition methods include:

- Outright purchase
- Dedication in conjunction with development
- Agricultural preservation
- Density trading via PRD's
- Gift, and
- Condemnation

Second, in terms of preservation after control is obtained, preserved areas should be managed to limit their degradation and this in turn should enhance their quality. Certainly, the introduction of more people into the area suggests more usage and greater possible degradation. This does not have to be the case. A positive program of preservation should be developed and promoted by the community at large to preserve this native environment. It is this kind of community education and participation program which Redlands has been noted for over the years and it seems very appropriately applied here.

Residential Land Uses: The density figures within the planning areas are: 1 unit per acre for slopes 0 to 15%, 1 unit per 2.5 acres for slopes 15 to 30%, and 1 unit per 10 to 5 acres for slopes over 30%.

3. Circulation

Circulation issues associated with the Southeast Area are included in the Circulation Element of this General Plan.

4. Recreation and Open Space

A major feature of the Southeast Area Plan is the potential for recreational use. This is highlighted in five significant ways:

First, the large tracts of preserved open space are well suited for hiking and riding trail use. Traditionally, the area appears to have been traversed by these trails; the Plan proposes to preserve these characteristic use along with the topography and vegetation. These trails tend to traverse the ridgelines and canyon bottoms and it is proposed this be continued where no development is to take place. In those areas where development is proposed, the Southeast Area Plan calls for provision of the continuation of these trails perhaps totally rerouted, but nonetheless continued. The important concept in the development areas to remember is that the trails' *characteristic* is to be continued, not necessarily any given trail. By the same token, the Southeast Area Plan encourages the expansion of the trail system as appropriate.

Second, the equestrian facilities at the bottom of Alessandro Road appear to be a longtime, if not historic, perception to many people and a characteristic of the area. As such, its preservation is consistent with the concept of the Plan. As long as the general area remains rural in character, it would seem an equestrian facility of some size could remain viable in this location. Independently of this study, this facility has been identified by the Open Space Committee as a community asset worthy of preservation. The Southeast Area Plan shows the continuation of this facility as a land use and incorporates it into the proposed trail system.

Third, there are two significant stands of trees in the Southeast Area: one in Sector 1, just below Sunset Drive, and the other in Sector 10 at the edge of the Southeast Area. The Southeast Area Plan calls for each of these assets to be the foundation for the development of a maintained park, including parking, open spaces, picnic facilities, and so on.

Fourth, the two major abutting watercourses, San Timoteo and Live Oak creeks, are proposed to be the focus of parkway development to create a continuous scenic greenbelt parkway system all along the southwesterly edge of the city.

Finally, the plan contemplates development of traditional neighborhood type parks as appropriate within the developed areas.

5. Fire Prevention/Public Safety

Fire Prevention: The Southeast Area Plan is predicated on the concept of preserving large tracts of chaparral and sage vegetation. Given the known fire hazard related to placing development adjacent to these highly flammable areas, the plan proposes that each developed area be encircled and protected by a Perimeter Fuel Modification/Access Area (PERFUMAA) which includes the following required and desired public facilities. The PERFUMAA is illustrated in GP Figure 4.4.

The required facilities included in the PERFUMAA are:

1. A perimeter all weather roadway.
2. A fuel modification area with a minimum cross section of 100 feet.
3. A water delivery system capable of delivering "fire flows" and including appropriately spaced hydrants.

The desired facilities which could be included in the PERFUMAA are:

1. A reconstruction of the natural watercourse found within the canyon areas (discussed more fully under Watercourses, below).
2. Equestrian trails.
3. A ribbon-like parkway between the roadway and equestrian trail.
4. Whatever additional landscaping and walking trails are desired and appropriate.

In order to minimize fire danger within the developed areas, the Southeast Area Plan proposes that all natural vegetation within any developed area should be removed and/or modified (installation of irrigation, for example) prior to initial occupancy of that area.

Policies 4.42w and 4.42x address fire protection issues in the Southeast Area.

Other Public Safety Uses: The Southeast Area Plan contemplates the need for some public safety facilities, but does not provide detailed locations for these facilities. The types, numbers, and locations of these uses are a direct function of the land use and density finally approved, and will be planned and sited as development warrants.

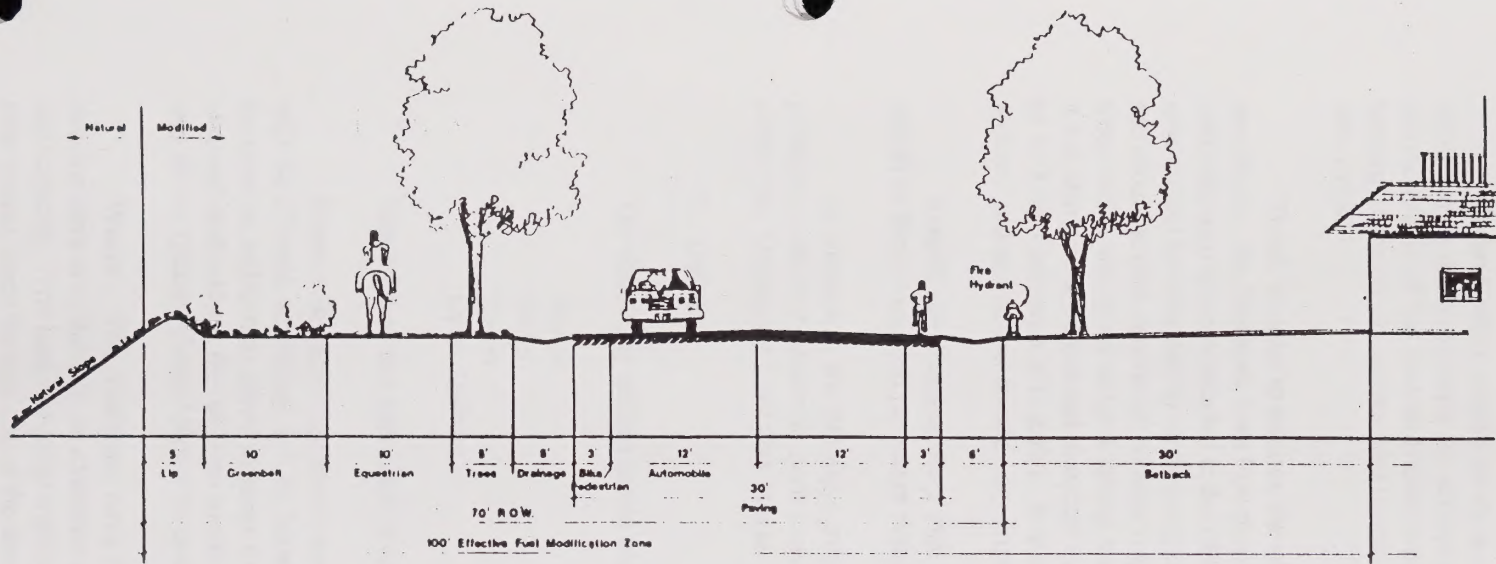
6. Watercourses/Drainage

As noted earlier in this section, two types of canyons narrow and wide are found within the Southeast Area. These two divisions also facilitate this discussion and are used here.

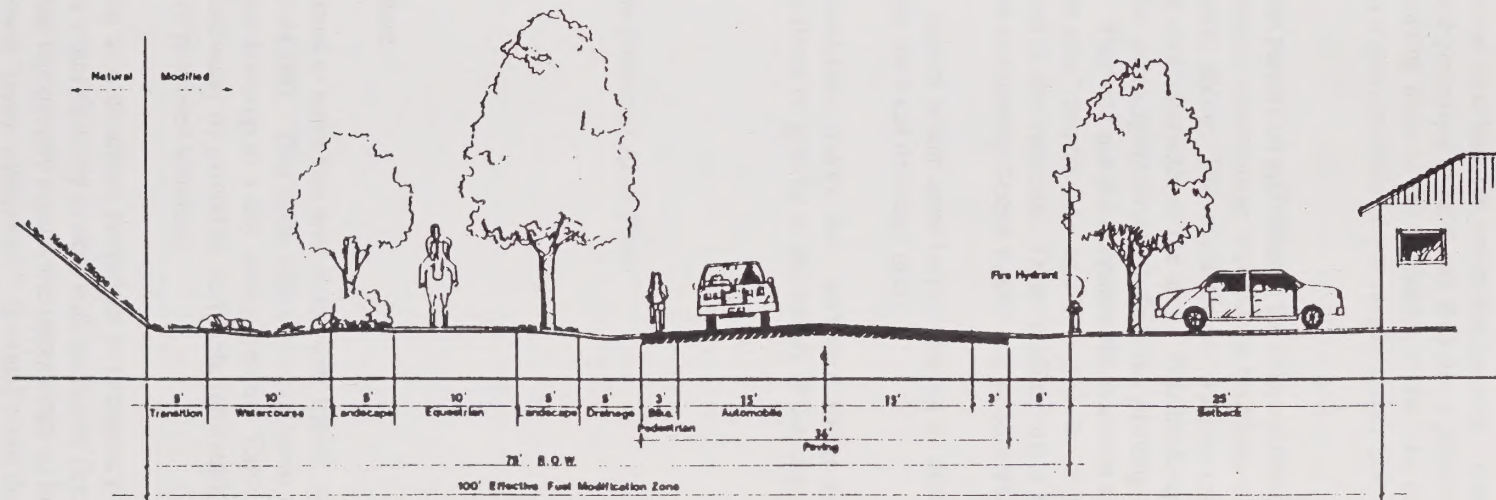
Narrow canyons: Because no significant development will extend into these narrow canyons, the watercourses should be left intact. The exception to this will occur where drainage structures are required to facilitate approved development, upstream or downstream.

Wide canyons: Once the canyon widens to the point of providing sufficient dimension to accommodate development or when the narrow canyon empties into a larger canyon, the watercourse should be modified and restructured.

Specifically, the Southeast Area Plan proposes to route the watercourse around the edge of the canyon rather than through the center, whether or not that is the current alignment of the watercourse. This is not as radical as it may first sound and accomplishes several positive objectives at once.



RIDGETOP 'PERFUMAA'
1/4" = 1'-0"



CANYON BOTTOM PERIMETER 'PERFUMAA'
1/4" = 1'-0"

CHARACTERISTICS OF THE

WATER LOG ANALYSIS



First, it was noted in the field that most every one of the wider canyons have been recontoured by man in the past, apparently for agricultural purposes. Thus, the "natural watercourses" are in reality reconstructed already. Further, the wider canyons are more or less flat on the bottom so the watercourse therein could relatively easily go one direction as another. It therefore appears the proposed reconstruction would not be unnatural nor would it be particularly difficult.

Second, these watercourses are significant characteristic features within the canyons. Even though the watercourses in several cases are not highly visible, they are perceived to be there; they are a perceived signature characteristic of the canyon bottom environment. By routing them to the perimeter of the canyon bottom and keeping them on the surface and visible they will remain a characteristic of the canyon rather than disappearing into a pipe.

Third, in order to enhance the whole canyon bottom perception and enhance the watercourse characteristic specifically, the Southeast Area Plan proposes that this perimeter watercourse become the backbone of a perimeter parkway/open space as detailed in the PERFUMAA discussion, above. This characteristic watercourse feature this asset should be enhanced by landscaping consistent with the rural character of the area. This landscape area could and should in time contain appropriate trails and paths. The landscaping should include the planting of significant trees which will grow to have strong vertical character. This will not only enhance the watercourse perception it will also give definition and character to the "developable area" therein. An excellent tree choice would appear to be Live Oak since it is native, is drought resistant, and is fire resistant. Other choices might be sycamore, willow, and acacia and should vary from Planning Sector to Planning Sector to enhance neighborhood identify.

Fourth, the Southeast Area Plan proposes that the canyon bottom areas be recontoured to allow for surface runoff to these realigned perimeter watercourses to handle the local drainage needs.

In summary, the drainage proposal is for a natural-like, gravity flow, surface drainage system, with a perimeter collector system in each canyon which in turn flows by gravity to the mouth of the canyon and out to either San Timoteo or Live Oak creeks.

7. Utilities

The following utilities issues are addressed in the Southeast Area Plan:

- Sewer
- Water
- Power
- Other Utilities

These issues are addressed in the following sections:

Sewer: Because City sewer service is not projected to serve this area in the near future, septic systems will be allowed according to City Municipal Code §13.44.080. That code requires installation of dry sewer systems in addition to septic systems to facilitate eventual hook-up to a city sewer system. Each development proposal shall address the optimum means of managing wastewater by providing sufficient information to the City and Water Quality Control Board to assess the viability of proposed solutions.

Water: The Southeast Area Plan proposes that as a condition precedent to occupancy of any given development area there be in existence and operational a water delivery system with sufficient fire flow storage and capacity. The land use pattern proposed related to the topography creates the opportunity to build a gravity flow system, since the majority of the development is proposed "down watershed." It would seem that this system should be master planned to reduce its overall cost and to address issues of phasing. There are two water supply tanks in the area, both located atop signature ridges in very visible locations. This ridgeline siting is economical, but very disruptive to the "historic perception" of the ridgeline in question. Future planning consistent with the

preservation concepts contained in this study should preclude such disruptive sitings in the future.

Power: The Southeast Area Plan does not address the location of power lines specifically. However, adherence to the Plan's design policies will direct power lines away from signature ridgelines. The Southeast Area Plan does not call for underground utilities necessarily, even though same may be very appropriate in certain situations. This issue should be reviewed as specific plans are developed,

Other Utilities: As specific plans of development for the area are developed, additional utility type issues will emerge. In all cases the plan concepts should be applied to ensure the ultimate result is the preservation of the identified signature characteristics impacted.

Guiding Policies: Southeast Area - The following are the Guiding Policies for the Southeast Area. Additional policies specific to this area are contained in the Circulation Element of this General Plan.

- 4.42a A Specific Plan shall be developed for each of the designated Planning Sectors consistent with the Policies contained in this section of the General Plan as the means of implementing this General Plan. A specific plan shall not be a prerequisite for the approval of any residential development project consisting of four (4) dwelling units or less within Planning Sector 2.
- 4.42b The perception of the signature features of the area shall be preserved, maintained, and, where possible, enhanced.
- 4.42c The canyon walls immediately below the signature ridges and the vegetation thereon shall be preserved and enhanced where appropriate. Canyon walls associated with the signature ridges wherein a predominance of the slopes are in excess of 50 % shall be preserved intact.
- 4.42d Both signature ridges and major ridges within canyons shall be preserved and enhanced. Significant modification of these ridges shall occur only where offsetting need is demonstrated. Development on ridgelines is allowed as long as it stays within the parameters of this policy. Offsetting need is defined as a demonstration that the grade of a specific parcel requires modification of an existing ridge line to produce sufficient space to site a building pad and that the result will not eliminate the continuity of the ridge line through grading or construction of structures.
- 4.42e Ridges not identified as major ridges within a canyon may be modified to facilitate development within the canyon so long as their collective perception as canyon wall buttresses remains intact.
- 4.42f The narrow side canyon bottoms within the lower portions of the major canyons and particularly those around the edges of the major bottoms may be modified to accommodate proposed development consistent with the development criteria in this section of the Land Use Element.
- 4.42g The steep ridge and canyon system between Planning Sectors 1 & 2 shall be maintained intact and enhanced as appropriate.
- 4.42h The City of Redlands shall actively promote the development of the Live Oak Canyon area in a manner consistent with this section of the Land Use Element.
- 4.42i Live Oak Canyon shall be the subject of a specific study to establish a unified improvement plan to ensure that it will function as a scenic highway and provide a suitable "front door" for the adjacent canyon communities.
- 4.42j The City of Redlands shall work to ensure that if San Timoteo Canyon Road is realigned and upgraded it shall:

- 1) Maintain and expand its alignment adjacent to the existing rail line; and
- 2) Be routed to provide ready access to the I-10 Freeway

4.42k The San Timoteo Creek watercourse shall be preserved and enhanced as the backbone of a linear parkway/activity corridor extending throughout the canyon.

4.42l Special attention shall be given to the sliver of land located between the San Timoteo Canyon watercourse and the rail line to ensure the linear parkway/activity/corridor character of this area is maintained.

4.42m Density within the Southeast Area Plan shall be as follows:

<u>Slope</u>	<u>Acres/Dwelling Unit</u>
0 to 15 %	1.0 acre
> 15 to 30 %	2.5 acre
> 30 %	10.0 to 5.0 acres

Exhibit "A" , Statistical Summary, (shown below and on the following pages) presents the results of the application of these densities. These results are expressed in terms of the most commonly considered impacts resultant therefrom, acres involved, number of dwelling units, population, numbers of school age children, automobile trips per day and peak hour automobile trips. Presented are estimates for each planning sector; specific slope analysis and densities shall be determined as part of the Specific Plan for each sector.

EXHIBIT A: SOUTHEAST AREA PLAN STATISTICAL SUMMARY

Planning Sector	Slope	Density	Acres	D.U.'s	Pop. @ 3.00	K-6	Junior High	Senior High	Total	ADT	Peak Hour Trips
1	0 to 15 %	1.0	118	118	351	40	20	20	80	1180	118
	> 15 to 30 %	2.5	35	14	42	4	2	2	9	140	14
OS		0	62	0	0						
RC	> 30 %	0	81	0	0						
	Min. [2]	10.0	192	19	57	6	3	3	12	190	20
	Max. [3]	5.0	192	39	141	12	6	6	24	390	39
	s.t. (Min.)		488	150	450	50	25	25	100	1500	150
2	0 to 15 %	1.0	74	74	222	24	12	12	48	740	74
	> 15 to 30 %	2.5	22	8	24	2	1	1	5	80	8
RC	> 30 %	0	118	0	0						
	Min. [2]	10.0	93	9	27	4	2	2	8	90	9
	Max. [3]	5.0	93	19	57	6	3	3	12	190	19
	s.t.		307	90	273	30	15	15	60	900	90
3	0 to 15 %	1.0	23	23	69	6	3	3	15	230	23

Planning Sector	Slope	Density	Acres	D.U.'s	Pop. @ 3.00	K-6	Junior High	Senior High	Total	ADT	Peak Hour Trips
	> 15 to 30%	2.5	8	3	9	2	1	1	3	30	3
OS		0	5	0	0						
RC		0	16	0	0						
	Min. [2]	10.0	43	4	12	2	1	1	3	40	4
	Max. [3]	5.0	43	8	24	2	1	1	5	80	8
	s.t.		95	29	87	10	5	5	19	290	29
4	0 to 15%	1.0	73	73	219	24	12	12	48	730	73
	> 15 to 30%	2.5	1	1	1	0	0	0	1	10	1
OS		0	7	0	0	0	0	0	0	0	0
RC	> 30%	0	199	0	0	0	0	0	0	0	0
	Min. [2]	10.0	3	1	3	0	0	0	1	10	1
	s.t.		283	74	223	24	12	12	50	740	74
5	0 to 15%	1.0	20	20	60	6	3	3	13	200	20
	> 15 to 30%	2.5	2	1	3	0	0	0	1	10	1
RC	over 30%	0	79	0	0	0	0	0	0	0	0
	Min. [2]	10.0	19	1	3	0	0	0	1	10	1
	Max. [3]	5.0	19	3	9	0	0	0	2	30	3
	s.t.		120	22	66	6	3	3	14	220	22
6	0 to 15%	1.0	55	55	165	18	9	9	36	550	55
	16 to 30%	2.5	4	2	6	0	0	0	2	20	2
RC	> 30%	0	163	0	0	0	0	0	0	0	0
	Min. [2]	10.0	73	7	21	2	1	1	4	70	7
	Max. [3]	5.0	73	14	42	4	2	2	9	140	14
	s.t.		295	64	192	20	10	10	42	640	64
7	0 to 15%	1.0	18	18	54	6	3	3	12	180	18
	> 15 to 30%	2.5	3	1	3	0	0	0	1	10	1
RC	> 30%	0	88	0	0	0	0	0	0	0	0
	Min. [2]	10.0	6	1	3	0	0	0	1	10	1
	Max. [3]	5.0	6	1	3	0	0	0	1	10	1
	s.t.		115	20	60	6	3	3	13	200	20
8	0 to 15%	1.0	42	42	126	12	6	6	28	420	42

Planning Sector	Slope	Density	Acres	D.U.'s	Pop. @ 3.00	K-6	Junior High	Senior High	Total	ADT	Peak Hour Trips
	> 15 to 30%	2.5	36	14	42	4	2	2	9	140	14
		0	1	0	0	0	0	0	0	0	0
RC	> 30%	0	85	0	0	0	0	0	0	0	0
	Min. [2]	10.0	57	5	15	0	0	0	3	50	5
	Max. [3]	5.0	57	11	33	4	2	2	8	110	11
	s.t.		221	61	183	20	10	10	40	610	61
9	0 to 15%	1.0	56	56	195	18	9	9	37	560	56
	> 15 to 30%	2.5	7	2	10	0	0	0	1	20	2
		0	2	0	0	0	0	0	0	0	0
RC	> 30%	0	85	0	0	0	0	0	0	0	0
	Min. [2]	10.0	6	1	3	0	0	0	1	10	1
	Max. [3]	5.0	6	1	3	0	0	0	1	10	1
	s.t.		156	59	177	20	10	10	40	590	59
10	0 to 15%	1.0	43	43	129	14	7	7	28	430	43
	> 15 to 30%	2.5	2	1	3	0	0	0	1	10	1
OS		0	7	0	0	0	0	0	0	0	0
RC	> 30%	0	54	0	0	0	0	0	0	0	0
	Min.[2]	10.0	3	0	0	0	0	0	0	0	0
	Max. [3]	5.0	3	0	0	0	0	0	0	1	0
	s.t.		109	44	132	14	7	7	30	440	44
TOTAL:			2189	613	1843	208	100	100	408	6130	613

Footnotes:

- [1]. Density is expressed as Acres Required / Dwelling Unit.
 [2]. Minimum is the Density permitted without a special showing.
 [3]. Maximum is the maximum Density permitted with a special showing.
 D.U. = Dwelling Unit
 s.t. = Subtotal

Definitions:

Population/household is assumed to be 3.00 persons per household.
 School system is assumed to be 6-3-3.
 Average Daily Trips per household (ADT) is assumed to be 10.0.
 Peak Hour Trips are assumed to be 10% of ADT.

OS - Open Space = Parks/Golf Courses/Agriculture/Flood Control/Construction

Aggregates/Conservation/Habitat Preservation

RC - Resource Conservation

- 4.42n Development within an area having an average slope of less than 30% or with a proposed density of 1 unit per 10 acres or greater, which abuts an area of significant natural vegetation shall be separated from same by a fuel modification zone which contains an all weather access roadway and a water supply system having fire flow capacity.
- 4.42o Flood control and drainage facilities within the Southeast Area shall be designed in such a manner as to preserve the perception of natural watercourses flowing down the on-site canyons and into Live Oak and San Timoteo canyons.
- 4.42p The City shall determine whether the City's historic agricultural uses are to be preserved and, if so, shall designate specific sites for preservation.
- 4.42q The perceived character of the vegetation and wildlife within the Southeast Area shall be preserved and enhanced as appropriate.
- 4.42r Access into the Planning Sectors shall be provided in accordance with the following requirements:
- Primary access into each of the Planning Sectors shall follow the primary historic route pattern for that sector.
- For Planning Sectors 1, 3, 4, 5, 6, 7, 8, and 9 this shall be up-canyon from Alessandro, San Timoteo Canyon and Live Oak Canyon, as applicable. For Planning Sector 2 this shall be down-ridge from Sunset Drive.
- If secondary access is required for safety reasons, such secondary access shall be limited to other identifiable historic routes accessing each individual sector and shall not be inconsistent with the perceived historic pattern.
- 4.42s Internal access within the area, including roads, trails and paths, shall be routed so as to preserve and enhance the perception of the historic access patterns by generally conforming to the natural contours.
- 4.42t All utilities and public facilities in the Southeast Area shall be designed and constructed to preserve and enhance the perceived natural and historic character of this area.
- 4.42u Each Planning Sector within the Southeast Area has a series of signature characteristics, the perception of which shall be preserved. The planning for each Planning Sector shall include special consideration of the individual character of that Sector and shall include criteria to preserve and enhance the characteristics identified. Each Planning Sector shall be planned so as to result in an identifiable neighborhood within the community at large.
- 4.42v A Specific Plan Study of Planning Sectors 1 and 2 shall be undertaken to establish the location for and resolution of:
- The widening and alignment of San Timoteo Canyon Road.
- The alignment and widening or relocation of the Alessandro bridge.
- 4.42w The Perimeter Fuel Modification/Access Area (PERFUMAA) concept shall be adopted and implemented within each of the Planning Sectors identified in the Southeast Area Plan. The Fire Chief may grant modifications from this concept if effective alternatives are provided.

- 4.42x** No development within the Southeast Area Plan shall be permitted to be occupied until such time as all the fire safety measures required by the City are in place and operational.
- 4.42y** The historic character of Live Oak Canyon as a narrow fertile valley astride a gorged watercourse lined with significant trees should be preserved and enhanced. This character is important to the area and should be preserved by not only ensuring it does not disappear but by enhancing it so it can continue to be readily perceived.
- 4.42z** The perception of San Timoteo Canyon as a transportation corridor within a fertile valley bordered by a major water course should be preserved and enhanced. These characteristics are important to the area and should be preserved by not only ensuring they do not disappear, but by enhancing them to they can be readily perceived among the development which occurs in the canyon.
- 4.42aa** The City of Redlands shall take a strong position to advocate that the future development of Live Oak Canyon, both within San Bernardino County and Riverside County, be consistent with the historic character and role of this canyon.
- 4.42bb** The City of Redlands shall take a strong position to advocate that the future development of San Timoteo Canyon, both within San Bernardino County and Riverside County, be consistent with the historic character and role of this canyon.

4.50 Office Land Use

The Office Land Use category includes business and professional offices. This land use category is intended to encourage the concentration and high visibility of office uses and professional activities for the convenience of the general public and to minimize conflicts and adverse impacts on other land uses.

Offices employ an ever-increasing share of the workforce and have two to three times as many workers per acre as industrial or retail establishments. East Valley Corridor business parks will have strong appeal for region-serving offices. Downtown Redlands needs to capture a large share of local-serving offices -- lawyers, accountants, and other business and personal service providers -- and has capacity to add 400,000 square feet or more of office space. To reduce travel and support Downtown retailing, the General Plan Diagram allocates some additional space for expansion of local-serving offices outside Downtown.

Generally office land uses are located adjacent to and extending outward from the downtown business district. Cajon Street between Olive Avenue and Cypress Avenue and Brookside Avenue between Eureka and Center, has been retained as office to retain the existing historic homes through adaptive reuse of these structures.

Office land uses are located primarily along arterial and collector streets to avoid intrusion into residential areas. See Table 4.2 for FAR.

Guiding Policies: Offices

- 4.50a** Encourage development of office space in Downtown Redlands and in the East Valley Corridor.
- 4.50b** Minimize expansion of office space adjoining existing residential neighborhoods.

Implementing Policy: Offices

- 4.50c** Set the maximum ratio of floor area to site area for offices outside Downtown and the East Valley Corridor at .4.

The Administrative and Professional Office District in the Zoning Ordinance does not limit height or floor area ratio.

- 4.50d** Limit office occupancy in the vicinity of Redlands Community Hospital to health care related uses.

The purpose is to minimize impacts on the adjoining neighborhood.

4.51 Neighborhood Shopping

The General Plan recognizes the convenience of carefully controlled outlying shopping districts to provide the day to day goods and services required by people who live within a few minutes driving time from these centers. Standards must be very high since these areas are usually a part of a residential environment.

Neighborhood shopping districts are identified with an "N" on the General Plan diagram. Where a specific site location is not identified the General Plan diagram has a red circle with an "N".

Guiding Policies: Neighborhood Shopping

- 4.51a** Maintain existing neighborhood shopping centers. Do not establish new centers in areas already served.

Duplicate existing facilities would be likely to cause slow decline for the less competitive center.

- 4.51b** Preserve and encourage neighborhood stores that enable shoppers to walk or bike for everyday needs.

- 4.51c** Design neighborhood shopping centers in a manner that will provide protection to adjacent residential areas.

- 4.51d** Locate neighborhood shopping centers near the center of their respective trade area and at the intersection of major traffic arteries.

Implementing Policies: Neighborhood Shopping

- 4.51e** Locate neighborhood convenience centers where they will not result in substantial increases in traffic on local streets serving the residential areas or create a nuisance due to hours of operation.

- 4.51f** Neighborhood shopping centers shall remain relatively small and not expand into a major shopping center and thus disrupt the residential character of the neighborhood.

- 4.51g** Neighborhood shopping centers shall be designed in a manner that will provide protection to adjacent residential areas.

- 4.51h** Neighborhood shopping centers shall conform to special regulations for signage limiting their size, location, and general character so that they do not disrupt the residential character of the neighborhood.

4.60 General Commercial

An important consideration for new local businesses, expanding local firms, as well as industries moving into the area is the supply of land available.

Between 1994 and 2010 Redlands will change from a predominantly residential community that sends a majority of its employed residents to jobs elsewhere to an employment center with a daily influx of workers, mainly to the East Valley Corridor (EVC). With over 90,000 jobs at buildout (projected in 2028) and a site likely to attract San Bernardino County's largest regional shopping center east of Ontario, the East Valley Corridor Specific Plan will bring change on a scale Redlands has not experienced. EVC will reduce potential demand for retail, office, and industrial space elsewhere in the Planning Area, thereby neutralizing pressures that might otherwise change the appearance of the older city.

Future growth of commercial, retail and industrial developments will most likely occur in two areas - new development in presently vacant ground in the EVC area and as redevelopment in older, under utilized areas. This category includes most of downtown, the commercial strips, and the East Valley Corridor regional shopping center site. Uses include retail stores, hotels, motels, automobile sales and service, offices, and entertainment and cultural facilities. See Table 4.2 for FAR.

4.61 Downtown

The *Downtown Redlands Specific Plan*, (As amended February 7, 1995), makes specific proposals for the preservation and development of the downtown area between Redlands Blvd. and the I-10 Freeway. It calls for two- and three-story commercial, office and residential buildings in the Town Center District and service and industrial buildings in the Service Commercial District. The City's redevelopment activities in Downtown have helped attract \$23 million in private investment in 13 development projects.

Guiding Policies: Downtown

The following policies are descriptive of and consistent with the Downtown Redlands Specific Plan:

- 4.61a** Develop the Specific Plan Area (between Redlands Boulevard and I-10 Freeway) as an extension of Downtown Redlands, providing a high-quality pedestrian-oriented development character consistent with the rest of the Town Center.
- 4.61b** Provide opportunities for the expansion and development of small businesses that provide local services.
- 4.61c** Provide public improvements for traffic circulation, flood control, utility services and aesthetic amenities that will attract new private investment and economic development.
- 4.61d** Preserve historic buildings and sites.

4.62 East Valley Corridor

The East Valley Corridor is the best, perhaps only, location capable of attracting the office, high-tech and distribution jobs the eastern portion of the San Bernardino Valley needs. Design standards and infrastructure planning and financing incorporated in the Specific Plan ensure a high-quality business park environment. The EVC also includes the most suitable site for a new regional shopping center in the East Valley during the 20-year planning period (site bounded by Alabama Street, San Bernardino Avenue, I-30 Freeway, and Lugonia Avenue).

The *East Valley Corridor (EVC) Specific Plan* (adopted by the City of Redlands, 1989) is consistent with the General Plan as modified by policies in this section and Section 5, Circulation. The 4,000 acres of the Planning Area included in the Specific Plan are to be developed with commercial and industrial establishments totaling 37 million square feet of floor area and providing up to 90,000 jobs. The Plan will transform Redlands from a labor exporting to a labor importing community.

An issue is the ability to create a transportation system that will support this concentration of activity which the economists on the EVC planning team, viewing the project from the robust economy of the late 1980s, projected will require 40 years to reach full development.

The East Valley Corridor Specific Plan (EVCSP) is consistent with the land use map and land use element of the General Plan; however, the standards of development established by the general provisions, community design, overlay districts, and community facility sections of the EVCSP are covered in the Specific Plan and are not expressly part of the General Plan.

Guiding Policies: East Valley Corridor

- 4.62a** Develop the *East Valley Corridor Specific Plan* so as to promote and facilitate high-quality commercial and industrial development within the Corridor area.

This is a goal stated in the Specific Plan document (EV2.0205).

- 4.62b** Provide sufficient roadway and intersection capacities to maintain a minimum Level of Service (LOS) C except as provided in policy 5.20b. In areas where the current level of service is below the LOS C standard, provide sufficient roadway and intersection capacities to maintain, at a minimum, the LOS existing as of the time an application for development is filed and to assure that the level of service is not degraded to a reduced LOS except as provided in Section 5.20b.

LOS C is an objective of the Specific Plan (EV2.0220), but it was not attained, according to the EVC EIR. Traffic studies for the General Plan demonstrate that even LOS D would not be attained during peak hours within and adjoining the Specific Plan area at full development unless travel habits, intensity of development, or the circulation network changes. Consequently, Transportation Demand Management (TDM) Measures, revisions to the mix of uses, modification of the intensity of development, and/or additional circulation improvements will be necessary before buildout occurs.

- 4.62c** Implement a Specific Plan that is responsive to physical and environmental constraints and opportunities.
- 4.62d** The Specific Plan should provide for extension of public services in a logical and functional manner to minimize impacts on service purveyors while maximizing areas that can accommodate development in a timely manner.
- 4.62e** Design a comprehensive, functional and efficient circulation system of sufficient capacity to accommodate projected traffic demands at all phases of development, which is consistent with regional master transportation plans.
- 4.62f** Adopt energy-efficient transportation strategies to implement state and county goals for reduced energy consumption and improved air quality.
- 4.62g** Promote high quality development in the East Valley Corridor by protecting and enhancing existing amenities in the area, creating an identifiable community character, and adopting development standards and guidelines to ensure aesthetically pleasing design and maximum land use compatibility.
- 4.62h** Create parks and open space areas which will meet the community's recreation needs in a meaningful way, and create areas which will enhance and add value to the community as a whole.

Implementing Policies: East Valley Corridor

- 4.62i** Process EVC development proposals in accord with the on-site use provisions and site design standards and guidelines in the Specific Plan except where development at less intensity may be required to comply with Policies 4.62j and 5.20f.
- 4.62j** Monitor traffic Level of Service at key intersections in and near the EVC as specified in Policy 5.20f and implement mitigation measures if required by the policy.
- 4.62k** Consider modification of the mix of land uses to include providing for PUD's and additional medium density residential land uses in the EVC.

See policy 4.40l.

- 4.62l** Maximize generation of employment opportunities in a region which has a significant imbalance of housing versus employment opportunities.
- 4.62m** Facilitate location in the project area of a wide range of commercial uses to serve the region, local industry, and residential neighborhoods.
- 4.62n** Support a limited amount of residential land use within the planning area.
- 4.62o** Preserve existing viable agricultural activities in the East Valley Corridor as long as feasible while the area transitions to more intensive uses.
- 4.62p** Identify natural hazards within the planning area and adopt development standards to mitigate these hazards.
- 4.62q** Develop a comprehensive storm drain system adequately sized and designed to accommodate storm flows from all present and future development within the Plan area.
- 4.62r** Identify natural resources within the planning area and adopt strategies to protect and preserve these resources.
- 4.62s** Complement the land use planning for the East Valley Corridor with comprehensive plans and programs for utilities and public facilities.
- 4.62t** Develop financing techniques to provide for extension of infrastructure facilities in the project area.
- 4.62u** Develop opportunities for community oriented services within the Plan area.
- 4.62v** Provide safe and convenient access and circulation to all development within the East Valley Corridor.
- 4.62w** Design a system of major arterials to accommodate traffic volume associated with projected land uses and densities throughout the Plan area.
- 4.62x** Protect the designed capacity of all arterials in the Plan area.
- 4.62y** Design a circulation system consistent with regional transportation planning for the East Valley area.

- 4.62z Designate land uses so as to reduce the number and length of vehicle trips in the East Valley Corridor.
- 4.62aa Provide opportunities for alternative travel modes to supplement the private automobile.
- 4.62bb Establish development standards to implement Specific Plan goals and policies.
- 4.62cc Establish design themes to unify the Corridor area and provide a recognizable community character within the area.
- 4.62dd Create a visually aesthetic appearance for the East Valley Corridor from the freeways as well as from the planning area.
- 4.62ee Encourage effective use of landscaping within the East Valley Corridor.
- 4.62ff Ensure compatibility between adjacent land use types within the Corridor area.
- 4.62gg Enhance the beauty of the East Valley Corridor and the overall quality of life for users and residents of the area.
- 4.62hh Plan for the development of additional recreational facilities within the Plan area.

4.63 Commercial Strips

Commercial strip development is characterized by small, single lot/single use developments in a more or less continuous alignment along a roadway frontage.

A remarkably small share of Redlands' arterial frontage is in commercial use. Given the abundance of retail and office sites provided by the East Valley Corridor (EVC) Specific Plan, there is no need to extend existing commercial strips. To do so would make the City less attractive; key arterials would become more congested, and existing and planned business districts would be weakened.

There are four commercial strips in the Planning Area:

Redlands Boulevard west of Texas Street. This is the City's only strip comparable to those that dominate the driver's view in so much of urban California. No other use could be expected along the former transcontinental highway. Many of the City's strongest sales tax generators, including auto dealers, Wal-Mart and K Mart, are located here. Trees and greenery are needed and there is room for planting in medians and potentially in former railroad right-of-way.

Colton Avenue west of Orange Street. Between Orange and Texas Street, the *Downtown Master Action Plan* calls for changes in development standards to prevent further commercial strip development and make new development compatible with older homes. At Alabama Street is Tri-City Center, Redlands' largest shopping center.

Orange Street between Colton Avenue and Brockton Street. The small lots fronting Orange Street have attracted scattered commercial use. The street is characterized by a combination of mixed uses, older structures, and street improvements that sporadically change from 2 to 4 lane widths. This strip area does provide services to residents in the area.

Mentone Boulevard between Wabash Avenue and Crafton Avenue. This strip serves the same function as Redlands Boulevard and has plenty of room for infill as its market area grows.

Guiding Policy: Commercial Strips

- 4.63a Improve the appearance of commercial strips.
- 4.63b Improve the accessibility, traffic flow, and parking availability within commercial strips.

Implementing Policies: Commercial Strips

- 4.63c Limit the extent of office or retail use along commercial strips to the length of frontage already identified as Commercial and/or Office.
- 4.63d Limit the number of access points on the major roadways from private property and encourage joint access points from adjoining commercial uses.
- 4.63e Rely on strong landscape treatments, setbacks, sign controls, and where feasible underground utilities and install street improvements to prevent visual chaos where businesses are competing for attention.
- 4.63f Where feasible, preserve housing on arterial streets.

Demolition or conversion removes affordable housing, exacerbates traffic friction, and often eliminates a prominent architectural resource.

4.64 Remote Commercial Recreation Facilities

It is the City's intent to recognize legitimate remote commercial recreational facilities. Examples would include commercial ventures such as riding stables, recreational vehicle parks, campgrounds, health resorts and similar facilities which operate within a rural setting. Areas likely to accommodate such uses include Reche Canyon, San Timoteo Canyon, and the outlying portions of the Crafton-Mentone area.

Guiding Policy: Remote Commercial Recreation Facilities

- 4.64a Consider outlying existing and proposed commercial recreation enterprises operating in accord with permits issued by San Bernardino County or the City of Redlands to be consistent with the General Plan.

Implementing Policy: Remote Commercial Recreational Facilities

- 4.64b Prepare zoning ordinance text changes to allow for remote commercial recreational facilities.

4.70 Commercial/Industrial Areas

The Commercial/Industrial Land Use category provides for areas suitable for a mixture of commercial and light industrial uses including manufacturing. Uses permitted in this category range from shopping centers to business parks to soap and chemical fertilizer manufacturing. The 1972 General Plan classification was "urban services"; the EVC Specific Plan uses "Special Development" or "Commercial Industrial." The intent is to minimize use regulation where there is no compelling reason to segregate uses as long as development and performance standards are adequate. Development standards vary according to location. See Table 4.2 for FAR.

Guiding Policy: Commercial/Industrial Areas

- 4.70a** Provide commercial/industrial sites appropriate for the wide range of uses encompassed by the category.

Implementing Policies: Commercial/Industrial Areas

- 4.70b** In the East Valley Corridor north of I-10 require Planned Development projects consistent with the Special Development District of the EVC Specific Plan.

Although most standards will be set by the Planned Development approval, EVC standards require a minimum of 15 to 20 percent landscaped area and other design standards characteristic of business parks.

- 4.70c** In the East Valley Corridor south of I-10 apply EVC Commercial Industrial District regulations.

EVC architectural and landscape standards apply and minimum lot area is 20,000 square feet.

- 4.70d** Maintain a range of standards for Commercial/Industrial development outside the EVC to provide for economically viable commercial/industrial opportunities.

Ten-foot front yards, 5,000 square-foot lots, and limited landscaping within parking areas provide a satisfactory urban industrial environment while minimizing start-up costs for new businesses and allowing more businesses to own their facilities.

4.80 Industrial Areas

This category encompasses all manufacturing and distribution industries operating in the Planning Area except aggregate mining and processing and concrete batch plants which are heavy industries located in a portion of the Santa Ana Wash designed for conservation of construction aggregates. See Table 4.2 for FAR.

Most new industries locating in the Planning Area will be in the East Valley Corridor, however three other important industrial areas are already in existence which contain nearly all of Redlands' existing manufacturing enterprises. These are generally located in the vicinity of West Redlands, Redlands Airport, and Mentone and have been identified on the General Plan diagram. The Redlands Airport industrial area is about one-quarter occupied, while the others are three-quarters occupied.

Guiding Policies: Industrial Areas

- 4.80a** Provide space for expansion of existing industries and protect them from encroachment by inharmonious uses, but encourage most new industries to locate in the East Valley Corridor where impacts on residential areas will be minimized.

- 4.80b** Reserve space adjoining Redlands Airport to allow for maximum development of airport-related industry.

Implementing Policy: Industrial Areas

- 4.80c** Maintain standards for industrial development and operation that prohibit creation of noise, odor, or other harmful emissions beyond the boundaries of the site.

Current (1995) City zoning regulations require the same high performance standards in all industrial districts. This is appropriate because industries in West Redlands and Mentone are in close proximity to residential areas.

- 4.80d** Encourage private development of well designed industrial park subdivisions which meet high standards of improvement.

4.90 Public/Institutional Areas

Educational, Cultural and Community Facilities

The section on Community Facilities is intended to provide policies for public services, buildings and related facilities. Included in this section are facilities not included elsewhere, public schools, the University of Redlands, and the civic center. While these areas provide for educational, cultural, and community facilities, it should be noted that residential uses at a density of up to 15 dwelling units per gross acre and agricultural uses are also allowed under this land use category.

4.91 Redlands Unified School District

Planning for the location of public schools is an important function of the General Plan. The need for new schools is closely related to community growth guided by The General Plan.

The General Plan serves as a bridge between long range development opportunities and resulting future school needs. It is the intent of the General Plan to assist the School District by providing a comprehensive long range projection of land use and circulation, including existing and proposed schools.

The District serves a 147-square-mile area including the 52-square-mile Redlands Planning Area, much of Loma Linda and Highland, and small portions of San Bernardino and Yucaipa. Nine of its 14 elementary schools (grades K-6) and all of its middle and senior high school facilities are in the Redlands Planning Area. A five-year Master Plan prepared in 1990 includes projections of enrollment and facilities needs as required for participation in the State School Building Program. To determine probable school site needs at buildout of the Redlands Planning Area, the General Plan assumes the 1994 ratio of students per household. Schools serving grades 7-12 are assumed to be within the Planning Area and growth outside the Planning Area is assumed to occur at the same rate as within. The 1994-95 year-round school program is assumed to continue. MEA Section 15.4 and EIR Section 16.4 provide details.

A new high school in the eastern portion of the city is presently under construction and an elementary school on Judson Street south of San Bernardino Avenue is in the planning stages and awaiting funding (1995). The General Plan Diagram designates general locations for the high school and two more elementary schools (Greenspot and San Timoteo Canyon). Under current RUSD policy, the two comprehensive high schools and a continuation alternative high school would house grades 9-12 and the three middle schools would serve grades 7-8.

Guiding Policies: Redlands Unified School District

- 4.91a** Maintain a continuous exchange of information on school needs and candidate sites between the City and the School District.
- 4.91b** Plan for adjoining school/park sites where both facilities are needed to serve the same area and space is available.
- 4.91c** Locate and design schools as contributors to neighborhood identity and pride.
- 4.91d** Schools should be located in a pleasing environment, free from noise, smoke, dust and traffic.
- 4.91e** Joint use of school facilities for neighborhood recreation should be encouraged.

Implementing Policies: Redlands Unified School District

- 4.91f** Consult with Redlands Unified School District when development is proposed in the vicinity of a potential additional school site designated on the General Plan.

4.92 University of Redlands

The University's solid academic stature and high quality of its campus are important contributors to the City's image. A Master Plan completed in 1991 is designed for expansion from the present 1,200 students to 2,000 students during the next 20 years. On-campus housing for 1,800 students would be provided. No expansion in land area of the 130-acre campus is contemplated. Gateways to announce entry on City streets and pedestrian-dominated lanes to knit the campus together are part of the Master Plan.

Guiding Policies: University of Redlands

- 4.92a** Support activities that enrich the cultural life of both the City and the University.
- 4.92b** Encourage development of the campus in ways that both strengthen its ties to the community and enhance its status as a major visual focal point.

Implementing Policies: University of Redlands

- 4.92c** Work with the University to create needed hotel/conference facilities in Redlands.

The University would be a major generator of business for a downtown hotel or non-University business could help support an on-campus conference center.

- 4.92d** Create a bike path and promenade between the University and Downtown.

4.93 Civic Center

The Civic Center represents the nucleus of the City to its residents. The overall design and function of the Civic Center creates a reservoir of community pride and identification. The Civic Center represents the City's values, aspirations, historical traditions, and associations. The General Plan proposes a Civic Center area that is closely associated with the downtown area, yet is distinctly identifiable as the center of cultural and government facilities.

The Smiley Library, the Redlands Bowl, City Hall, Joslyn Senior Center and the park wedges and Victorian houses that provide their setting are the heart of Redlands, the place that says without shouting that this is the Navel Orange Capitol of the World and the ideal Southern California city.

Most of the land, whether in civic use or not, was bought by the City with the intent of expanding the Civic Center.

Guiding Policy: Civic Center

- 4.93a** Preserve and enhance the Civic Center as the economic, cultural and historical focal point of Redlands.

Implementing Policy: Civic Center

- 4.93b** Prepare a long-range plan for the Civic Center that specifies the activities and facilities to be located in the Civic Center, their space needs and schematic architectural configuration.

4.94 Other Public Facilities

Additional public facilities identified on the GP Figure 4.1, Proposed Redlands General Plan, include postal offices, landfills, fire station and school locations, the Redlands Municipal Airport, the City yard, water and sewer facilities. These public facilities are anticipated to serve the additional population projected at buildout.

4.95 Open Space

Open Space describes all land and water areas, regardless of ownership, which are left open or undeveloped as an element in the planning and design process. The benefits of preserving some of the undeveloped land which remains include: the preservation of a visually pleasant landscape, ecological/environmental protection, the enhancement of community values, and the ability to guide urban form by utilizing open spaces to buffer incompatible land uses and maintain future land use options. The need to preserve open space and its benefits becomes more critical as city population increases and urban development expands to reach projected buildout.

Open Space land use designations include:

Parks, Golf Courses. This category includes both public and private facilities of park-like character.

Agriculture. Areas designated are planted in citrus or are suitable for citrus, avocados, kiwis, Christmas trees, and similar crops. Agriculture would be maintained by public ownership, by transfer of density/intensity within an ownership, or by exclusive agricultural zoning with or without provisions for transfer of development rights within a single project and dedication of a permanent agricultural easement.

Flood Control/Construction Aggregates Conservation/Habitat Preservation. Areas subject to 100-year flood after implementation of flood control measures in accord with policies in Section 8.40. Portions are designated for construction aggregates extraction, habitat preservation, and groundwater recharge.

Resource Conservation. Areas exceeding 30 percent slope are encouraged to remain as open space in accord with Policy 8.50i. The delineation of Resource Conservation areas on the General Plan Diagram is schematic and is subject to revision based on more detailed information and mapping at larger scale. The maximum density for Resource Conservation areas with 40% slope or greater is 1 unit per 10 acres. Areas with 30-40% slope may have a maximum density up to .2 units per acre (i.e., 1 unit/5 acres) dependent upon the slope and soil conditions of the property.

General Plan policies and standards for Open Space are provided in Section 7, Open Space and Conservation Element.

4.96 Resource Preservation

The Resource Preservation designation limits uses in areas which possess a unique character and fragile ecology which are prime resources for water conservation, wildlife preservation, open space recreation and agriculture. Preservation of such lands is essential to the health, safety and welfare of the community. Limited permitted uses include remote commercial recreational facilities, such as equestrian facilities, as envisioned in Section 4.64; postal offices, public safety facilities, as envisioned in Section 4.64; postal offices, public safety facilities, educational facilities and public utilities as envisioned in Section 4.94; and open space uses described in Section 4.95. Residential uses are permitted but density shall be limited to that allowed by Section 4.42m to protect the character and ecology of such lands.

5.0 CIRCULATION ELEMENT
REDLANDS GENERAL PLAN

5.0 CIRCULATION ELEMENT

5.10 Traffic

The Trafficway Network (GP Figure 5.1) and Roadway Widths (GP Figure 5.2) are designed to serve the future land use pattern and intensities of the General Plan. The East Valley Corridor Specific Plan and Downtown Specific Plan have adopted their own unique roadway widths for specific streets that vary from the widths depicted in GP Figure 5.2; however, they are also designed to meet the needs of the General Plan. The Circulation Element also includes policies and programs to enhance the efficiency of the transportation system and to promote use of alternative modes. It recognizes that the automobile will continue to be the most frequently used mode of transportation in the foreseeable future, but it emphasizes transit, neighborhood quality, and bicycle/pedestrian safety.

State law requires that a Circulation Element include "the general location and extent of existing and proposed major thoroughfares, transportation routes, terminals and other local public utilities and facilities, all correlated with the Land Use Element of the Plan" (Gov. Code, Sec. 65302[b]). Public utilities and facilities are addressed in the Health and Safety Element.

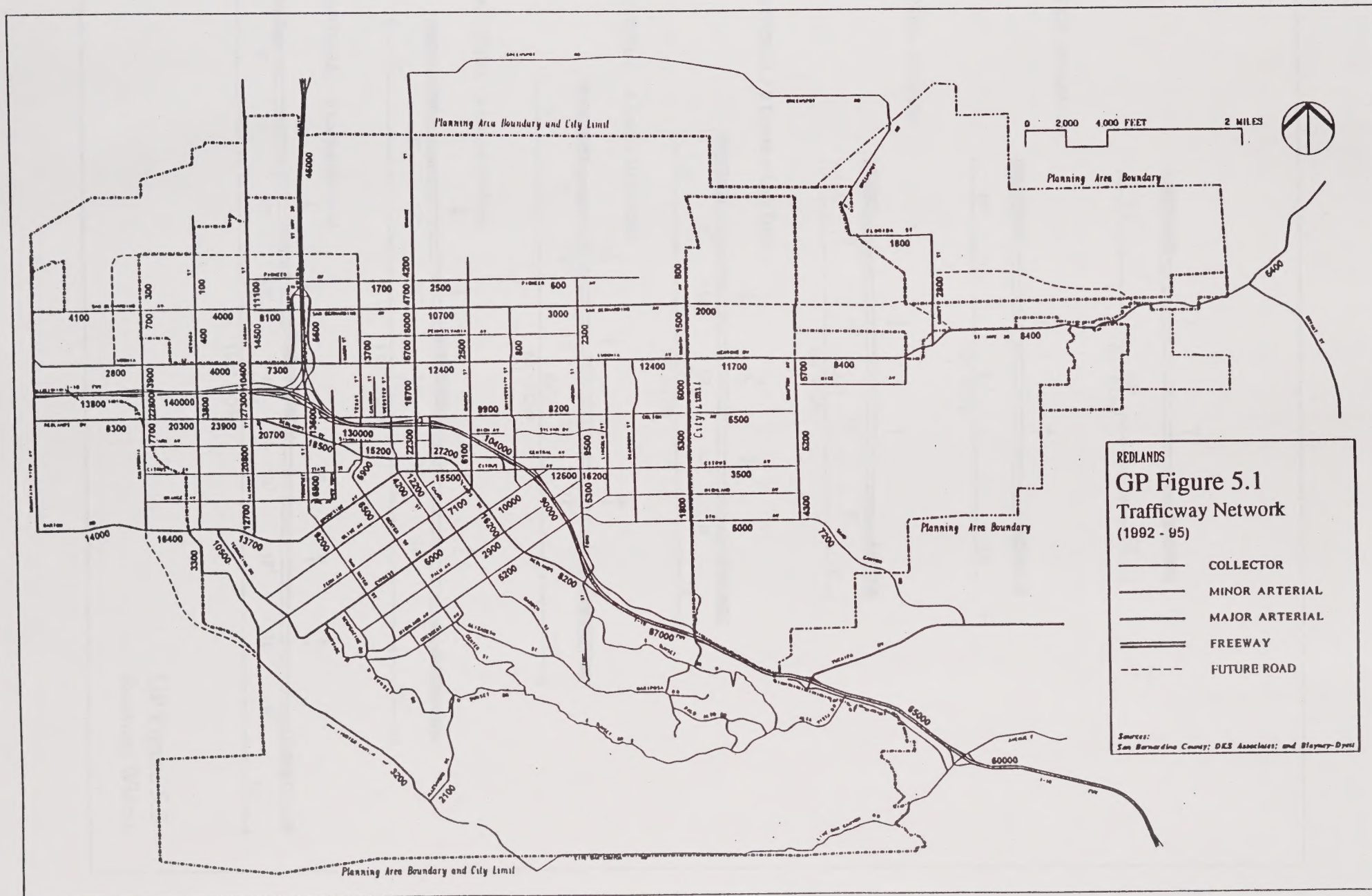
Generally, traffic conditions in Redlands are good in comparison to communities nearer the center of the Southern California metropolis. Residents can travel across town in ten minutes or less, and there are few locations (other than on Interstate 10 (I-10) freeway) where the traffic volume exceeds 15,000 vehicles per day. Isolated delays occur along some corridors where traffic converges (notably the Alabama Street/Redlands Boulevard intersection) and localized congestion can occur for short periods (typically 15 minutes or less) within the peak hour. However, traffic volumes on some residential streets are at or near the limits of acceptability from the residents' viewpoint.

To project future traffic demand, a computerized model of future traffic was prepared using trips generated from land use at buildout within the Planning Area (GP Figure 1.3). The model integrates these trips with trips to, from and through the Planning Area as projected by the Riverside-San Bernardino Area Comprehensive Transportation Plan Model (CTP Model) prepared by the Southern California Association of Governments (SCAG). For an explanation of the process see the Technical Report in the Master Environmental Assessment Appendix.

The major potential source of new traffic in the Redlands Planning Area would be the East Valley Corridor Specific Plan (EVCSP) where 90,000 jobs are expected to be created. Redlands is projected to be a significant "importer" of commuters and retail customers whereas today it is a net "exporter." The regional growth projections also assume substantial residential and job growth by 2010 from development in communities on each side of Redlands in San Bernardino and Riverside Counties.

A variety of transportation improvements are ongoing, programmed or planned to accommodate future growth, and these are incorporated into the Circulation Element. The new I-10/State Route 30 (SR 30) interchange ramps, help to keep regional traffic off City streets. Extensive roadway improvements are included in the *East Valley Corridor Specific Plan* and these are included in the Circulation Element. San Bernardino County is studying realignment of San Timoteo Canyon Road. Commuter rail service could be extended to Redlands sometime after 1995. The Caltrans Route Concept Report for Interstate 10 plans for a future requirement of 10 lanes west of SR 30 and 8 lanes to the east (with the added lanes potentially being HOV lanes).

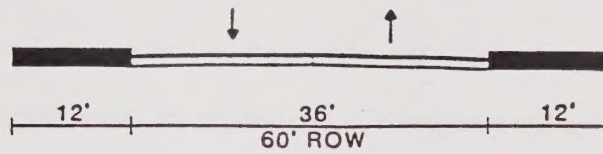
There are few opportunities for economically feasible and environmentally acceptable new routes in partially developed portions of the Planning Area, so the Plan focuses on expanding the capacity and efficiency of the existing circulation system. Traffic capacity is a potential limiting factor to land use intensity in the East Valley Corridor, because there is no space for new freeway interchanges and little potential for internalizing travel within the area.



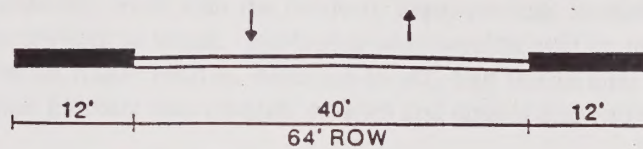
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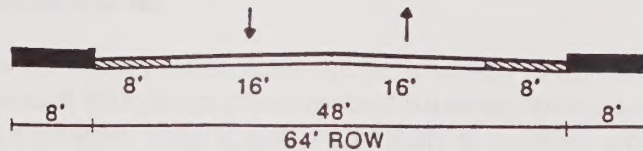
LOCAL



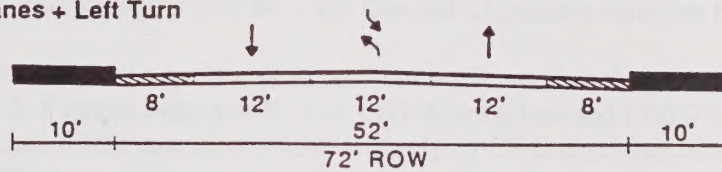
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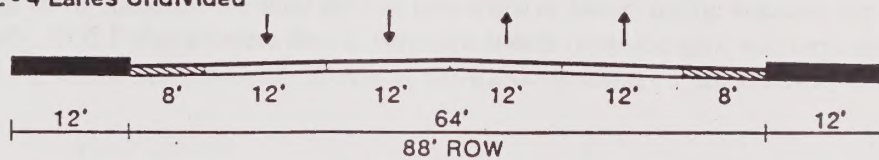
COLLECTOR - Industrial



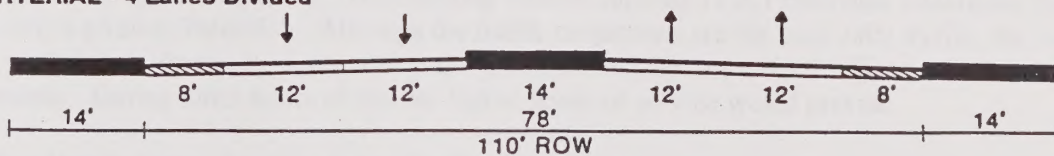
MINOR ARTERIAL - 2 Lanes + Left Turn



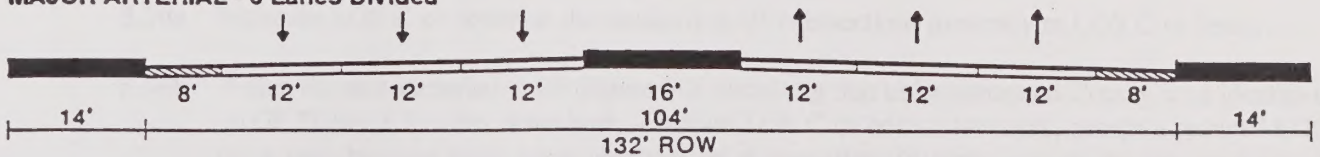
MINOR ARTERIAL - 4 Lanes Undivided



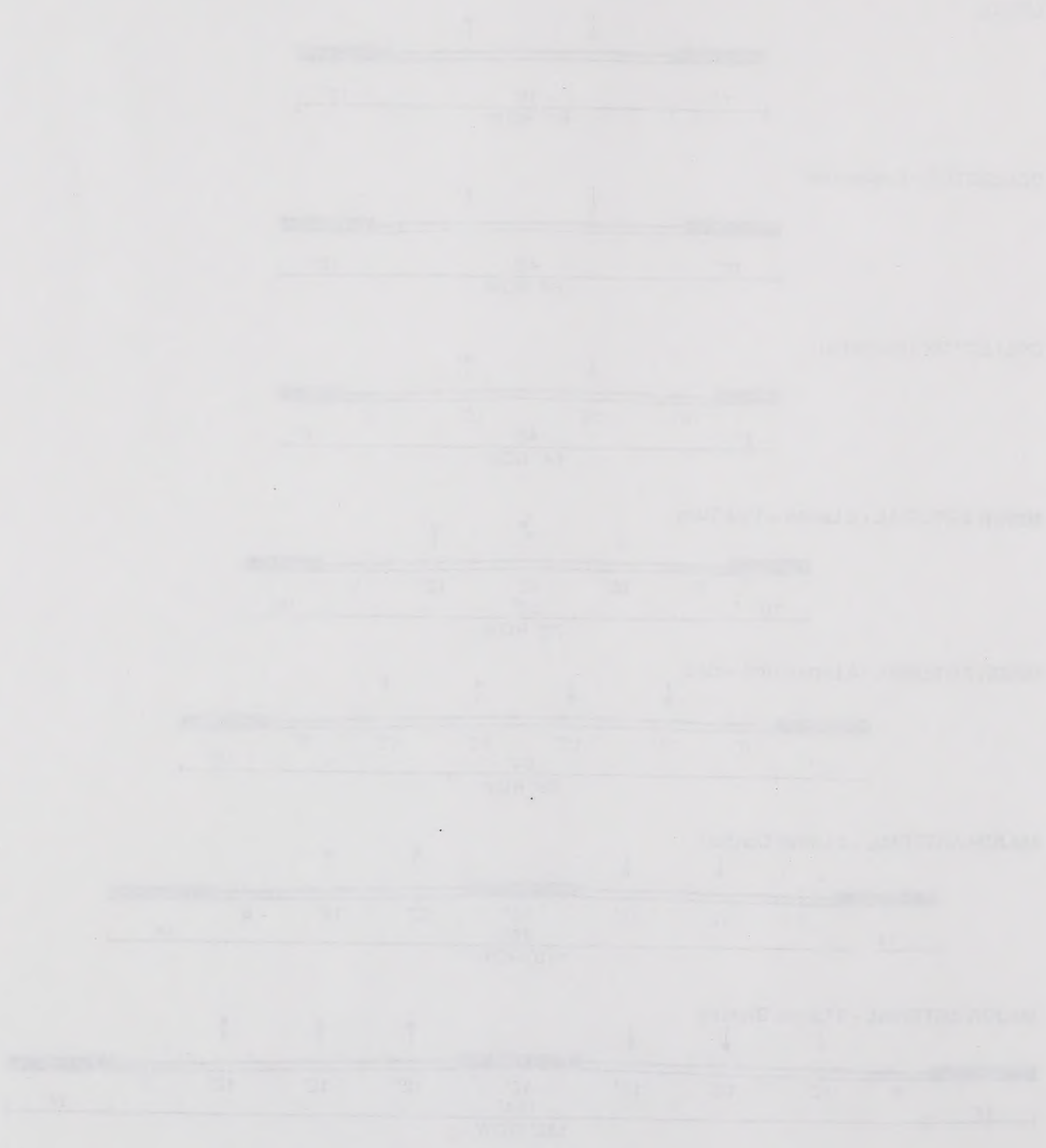
MAJOR ARTERIAL - 4 Lanes Divided



MAJOR ARTERIAL - 6 Lanes Divided



GP Figure 5.2
Roadway Widths



The Plan's circulation system has therefore been designed to:

- permit traffic to choose reasonably direct paths to destinations throughout the Planning Area
- minimize intrusion of through-traffic on local streets
- avoid over-reliance on the I-10 freeway for intracity travel
- provide efficient routes for transit service, emergency and other service vehicles.

The traffic projections upon which the Circulation Element is based assume continuation of current auto-oriented travel habits. However, even with the roadway improvements included in the Circulation Element, greater use of alternative modes such as transit, ridesharing and bicycling will be necessary to maintain acceptable peak period traffic service on routes such as Alabama Street, San Bernardino Avenue and Lugonia Avenue. Accordingly, the Circulation Element also contains policies and targets alternative modes to reduce peak period traffic.

5.20 Standards for Traffic Service

In a developed area the primary traffic issues are the feasibility of improvements and an acceptable level of service. Much of the General Plan design effort involved balancing land use and transportation by increasing traffic capacity and, where possible, limiting land use intensity to maintain acceptable levels of service. The definition of "acceptable," established by the City's standard for traffic level of service (Policies 5.20a, 5.20b, and 5.20c, below), allows a check on how well the Land Use and Circulation elements fit together.

Level of service (LOS) is a qualitative measure of traffic service along a roadway or at an intersection. As described in Table 5.1, it ranges from A to F, with LOS A being best and LOS F being worst. LOS A, B and C indicate conditions where traffic can move relatively freely. LOS D describes conditions where delay is more noticeable and average travel speeds are as low as 40 percent of the free flow speed. LOS E indicates significant delays and average travel speeds of one-third the free flow speed or lower; traffic volumes are generally at or close to capacity. Finally, LOS F characterizes flow at very slow speeds (stop-and-go), and large delays (over a minute) with queuing at signalized intersections; in effect, the traffic demand on the roadway exceeds the roadway's capacity.

Future levels of service for the Redlands circulation routes were determined by comparing projected roadway volumes to typical capacities. The resulting volume/capacity (V/C) ratio then establishes the LOS rating based on ranges given in Table 5.1. Although the traffic projections are for total daily traffic, the LOS estimates are for peak hours (typically a.m. and p.m. commute hours) since these dictate the need for roadway improvements. During other hours of the day higher levels of service would prevail.

Guiding Policies: Standards for Traffic Service

- 5.20a** Maintain LOS C or better as the standard at all intersections presently at LOS C or better.
- 5.20b** Within the area identified in GP Figure 5.3, including that unincorporated County area identified on GP Figure 5.3 as the donut hole, maintain LOS C or better; however, accept a reduced LOS on a case by case basis upon approval by a four-fifths (4/5ths) vote of the total authorized membership of the City Council.
- 5.20c** Where the current level of service at a location within the City of Redlands is below the Level of Service (LOS) C standard, no development project shall be approved that cannot be mitigated so that it does not reduce the existing level of service at that location except as provided in Section 5.20b.

Table 5.1

Level of Service Definitions		Freeway Segments	Street Segments
Level of Service A	Conditions of free flow; speed is controlled by driver's desires, speed limits, or physical roadway conditions.	0 to 0.30	0 to 0.60
Level of Service B	Conditions of stable flow; operating speeds beginning to be restricted; little or no restrictions on maneuverability from other vehicles.	0.31 to 0.49	0.61 to 0.70
Level of Service C	Conditions of stable flow; speeds and maneuverability more closely restricted; occasional backups behind left-turning vehicles at intersections.	0.50 to 0.71	0.71 to 0.80
Level of Service D	Conditions approach unstable flow; 0.75 to 0.89 tolerable speeds can be maintained but temporary restrictions may cause extensive delays; little freedom to maneuver; comfort and convenience low; at intersection, some motorists, especially those making left turns, may wait through one or more signal changes.	0.72 to 0.88	0.81 to 0.90
Level of Service E	Conditions approach capacity; unstable flow with stoppages of momentary duration; maneuverability severely limited.	0.89 to 1.00	0.91 to 1.00
Level of Service F	Forced flow conditions; stoppages for long periods; low operating speeds.	> 1.00	> 1.00

Sources: Transportation Research Board, *Highway Capacity Manual*, 1994.
DKS Associates.

Implementing Policies: Standards for Traffic Service

5.20d Design roadway improvements and evaluate development proposals based on the LOS standard prescribed in Policies 5.20a, b, and c.

5.20e Monitor traffic service levels and implement Circulation Element improvements prior to deterioration in levels of service below the stated standard.

Development approvals should require demonstration that traffic improvements necessary to serve the development without violating the standard will be in place in time to accommodate trips generated by the project.

5.20f If monitoring of conditions at intersections within the *East Valley Corridor Specific Plan* area and intersections affected by EVC development indicates that peak hour LOS will drop below the standards set by Policies 5.20a, 5.20b, 5.20c revise the EVC Specific Plan. Revisions necessary may include additional roadway improvements, mandated higher TDM (Travel Demand Management, See Section 5.40) reductions in single-occupant vehicle trip share, reduction of intensity of development, or changes in use of undeveloped sites.

Projected buildout for the EVC is 2028 vs. 2010 for the rest of the Planning Area. Travel habits may change significantly during this period, but project reviews for compliance with the General Plan must not assume changes that may be beyond the ability of the City to implement.

5.30 Circulation Network and Classification

Maintenance of the service level standards established in Section 5.20 will require a hierarchy of adequately sized streets. The Circulation Network in GP Figure 5.1 identifies the functional classification and size of key routes. The functional classification refers to the role played by a particular route. Function, as well as projected traffic level, determines the appropriate design and number of lanes for the route.

The Circulation Network is composed of five classifications:

- **Freeways.** Freeways are high speed, high capacity limited access facilities serving intercity and regional travel. In Redlands, both Interstate 10 and State Route 30 are freeways.
- **Arterials.** Arterials provide circulation between major activity centers and residential areas, and also provide access to freeways. They are further subdivided into two categories: major and minor arterials.

Major arterials usually carry the highest volumes and/or longest trips and are moderately high speed routes, typically four to six lanes wide. For high capacity they should have medians between intersections and additional lanes at intersections. Service to abutting properties may be provided but should be subordinate to through-travel needs. Redlands Boulevard, Brookside Avenue, and Alabama Avenue are examples of major arterials that must permit access to abutting property. Access points should be consolidated where possible.

Minor arterials typically interconnect with and augment the major arterial system, and serve trips of moderate length. Minor arterials may permit access to abutting properties, although traffic capacity needs are equally important. Minor arterials are typically no more than four lanes wide and, to minimize roadway width and right-of-way, may be undivided (no median). Lower volume minor arterials may be two lanes wide, although left-turn lanes at intersections and/or a continuous two-way left turn lane should be provided to improve traffic flow. Orange Street and Colton Avenue are examples of minor arterials.

- **Collectors.** Collectors have the important function of collecting traffic from residential and commercial areas and channeling it to arterials. They are typically fronted by residences, commercial or public activities. Collectors are usually two-lane streets, and maximum acceptable volumes are dictated by resident concerns about intrusion rather than traffic capacity considerations. The Circulation Network includes only existing or known future collectors. Examples are Pioneer Avenue, Dearborn Street, and Alessandro Road. Additional collectors should be provided as necessary in future development areas.
- **Local Streets.** Local streets have the sole function of providing access to adjoining land uses. All streets not depicted on the circulation plan are local streets.
- **Scenic Drives.** Scenic drive is the designation of the route along the Santa Ana Wash blufftop between Texas Street and Judson Street. When completed it will serve as a neighborhood connector as well as a recreational route for drivers and bike riders. In addition, the City Council has designated a number of streets within the City as scenic highways, drives, and historic streets. Special development standards have been adopted by Resolution for these streets. The streets are:
 - Brookside Avenue, from Lakeside Avenue to Eureka Street
 - Olive Avenue, from Lakeside Avenue to Cajon Street
 - Center Street, from Brookside Avenue to Crescent Avenue

- Highland Avenue, from Serpentine Drive to Cajon Street
- Sunset Drive, from Serpentine Drive to Edgemont Drive
- Cajon Street
- Mariposa Drive, between Halsey Street and Sunset Drive
- Dwight Street, between Pepper Street and Mariposa Drive

Guiding Policies: Circulation Network and Classification

- 5.30a Use the Circulation Network to identify, schedule and implement roadway improvements as development occurs in the future, and as a standard against which to evaluate future development and roadway improvement plans.
- 5.30b Review the Circulation Network with neighboring jurisdictions and seek agreement on actions needing coordination.
- 5.30c Review and coordinate circulation requirements with Caltrans as it pertains to the freeways and state highways.

Implementing Policies: Circulation Network and Classification

- 5.30d Adopt design standards for each functional roadway classification.

Roadway standards illustrated in the Technical Report in the Master Environmental Assessment Appendix are for typical midblock applications when constructing new roadways or improving existing roadways where sufficient right-of-way is available. Additional right-of-way may be needed for turn lanes at some intersection approaches. Exceptions to the standards should be kept to a minimum and should be evaluated on a case-by-case basis. Different standards may govern in Specific Plan areas.

- 5.30e Levy appropriate fees on new residential and non-residential development to be used for roadway improvements in compliance with the law.
- 5.30f Explore alternative means of financing for road improvements as long as in compliance with the law.
- 5.30g Establish the alignment of San Timoteo Canyon Road in the vicinity of Barton Road at the common boundary between Redlands and Loma Linda so that San Timoteo Canyon Road connects to California Street at Barton Road.
- 5.30h Coordinate with the City of Yucaipa to align the proposed Crafton Hills Drive between Wabash Avenue and Sand Canyon Road.
- 5.30i Establish and maintain traffic circulation patterns that protect the character of residential neighborhoods.
- 5.30j Design major infrastructure improvements to accommodate regional traffic needs in a manner which discourages increased traffic flows through residential neighborhoods, encourages traffic flows to existing freeway systems and assures prudent use of federal and local taxpayer dollars.

- 5.30k** In order to assure the circulation policies established by the Redlands General Plan as set forth in Table 5.2 are implemented, including without limitation establishment of California Street as a major arterial, the City Council shall coordinate with SANBAG, the IVDA and the City of San Bernardino with regard to all Santa Ana river crossings, except the Orange Street crossing, to assure the development of California Street/Mountain View Avenue as a major arterial providing access to the San Bernardino International Airport.

5.31 Arterials

Table 5.2 summarizes characteristics of the existing and proposed arterial system. Maintenance of acceptable levels of service will require major improvements. The note following the table specifies the assumptions that result in projected levels of service below LOS D on a quarter of the arterial segments.

Guiding Policies: Arterials

- 5.31a** Provide adequate capacity on arterials to meet LOS standards and to avoid traffic diversion to local streets or freeways.
- 5.31b** Locate high traffic-generating uses so that they have direct access or immediate secondary access to arterials.
- 5.31c** Establish a funding system that will enable completion of arterial roadway improvements before the projects that require them are occupied.

Implementing Policies: Arterials

- 5.31d** Maximize the carrying capacity of arterials by controlling the number of intersections and driveways, prohibiting residential access, and requiring sufficient on-site parking to meet the needs of the project.

Additional guidelines for arterial access include providing smooth ingress/egress to fronting development. This includes designing parking areas so that traffic does not stack up on the arterial roadway, combining driveways to serve small parcels, and maintaining adequate distance between driveways and intersections to permit efficient traffic merges. Implementation of these guidelines is especially important along Alabama Street and San Bernardino Avenue.

5.32 Collector and Local Streets

Collectors funnel traffic from local streets to the arterial network. Local streets are not indicated on the Circulation Network map (GP Figure 5.1) but are the subject of Plan policies. Standards for maximum traffic volumes are established for residential collectors and local streets because they normally have the capacity to carry far more traffic than is acceptable to people living along them.

Guiding Policies: Collector and Local Streets

- 5.32a** Design residential collector streets and implement traffic control measures to keep traffic on collectors at 3,000 vehicles per day or less, where possible.
- 5.32b** Design local residential streets and implement traffic control measures to keep traffic below 500 vehicles per day.

5.32c Discourage through-traffic on local streets.

5.32d Encourage special design standards for local streets in hillside and rural areas.

Table 5.2
Arterial System Volumes and Levels of Service

Location	Existing 1994			Buildout		
	Lanes	ADT	LOS	Lanes	ADT	LOS
<i>Palmetto</i>						
California - Alabama	2	<1,000	A	4	19,000	A
<i>San Bernardino Ave.</i>						
Mtn View - Alabama	2	4,000	A	6	28-33,000	A-B
Alabama - Orange	2	8,000	A	6	40-51,000	C-E
Orange - Church	2	11,000	C	4	25,000	D
Church - Wabash	2	3,000	A	4	15-24,000	A-C
Wabash - Mill Creek	2	2,000	A	4	11-12,000	A
<i>Lugonia Ave./Mentone Blvd.</i>						
Mtn View - Alabama	2	3,000	A	4	22-30,000	B-D
Alabama - Orange	2	7,000	A	4	32-36,000	E
Orange - Wabash	4	12,000	A	4	13-22,000	A-C
Wabash - Garnet	4	8,000	A	4	10-19,000	A-B
<i>Redlands Blvd.</i>						
California - Alabama	4	20,000	A	6	34-39,000	B-C
Alabama - Colton	4	21,000	A	6	53,000	E
Colton - Texas	4	14-19,000	A	6	33,000	B
Texas - Citrus	4	13-27,000	A	4	28-30,000	C-D
Citrus - Highland	4	8-16,000	A	4	28-32,000	C-D
Highland - I-10 Fwy	4	8,000	A	4	22,000	B
<i>Colton Ave.</i>						
Redlands - Sixth	2	--	--	4	17-23,000	A-C
Sixth - University	2	10,000	B	2	10-12,000	B-D
University - Dearborn	2	8,000	A	2	9-11,000	B-C
Dearborn - Crafton	2	2-6,000	A	2	5-9,000	A
<i>Barton/Brookside/Citrus</i>						
California - Terracina	4	16,000	A	6	25-33,000	A-B
Terracina - Orange	4	14,000	A	4	18-27,000	A-C
Orange - Judson	4	13,000	A	4	16-24,000	A-C
Judson - Wabash	4	16,000	A	4	8-14,000	A
Wabash - Crafton	2	4,000	A	2	4-10,000	A-B
<i>Cypress Ave.</i>						
Terracina - Citrus	4	6-9,000	A	4	8-12,000	A
<i>California St.</i>						
Palmetto - Lugonia	2	<1,000	A	6	31-40,000	A-C
Lugonia - Redlands	2	4,000	A	6	33-58,000	B-F
Redlands - Barton	2	7,000	A	6	22-23,000	A
<i>Nevada</i>						
S. Bernardino - Lugonia	2	<1,000	A	4	18-22,000	B-C
Lugonia - Redlands	2	4,000	A	4	26,000	D
Redlands - Barton	2	1,000	A	4	11-18,000	A-B

Continued

Table 5.2 (Continued)

Location		Existing 1994			LOS	Buildout		
		Lanes	ADT			Lanes	ADT	LOS
<i>Alabama Street/Palm</i>								
North of S. Bernardino		4	11,000		A	6	20-38,000	A-C
S. Bernardino - I-10 Fwy		4	10-15,000		A	6	45-58,000	D-F
1-10 Fwy - Redlands		4	27,000		D	6	47,000	D
Redlands - Barton	4	13-21,000	A-B		6	16-37,000	A-B	
<i>Tennessee/San Mateo</i>								
Lugonia - Brookside		4	14,000		A	4	13-29,000	A-E
Brookside - Highland		4	9,000		A	4	11-20,000	A-B
<i>Texas/Center</i>								
Pioneer - Colton		2	4,000		A	4	20-28,000	B-E
Colton - Brookside		4	11,000		A	4	14-18,000	A
Brookside - Highland		2	--		--	2	10-13,000	C-E
<i>Eureka Street</i>								
Pearl - Citrus		2	4,000		A	4	10,000	A
<i>Orange St./Cajon/Garden</i>								
North of Pioneer		2	4,000		A	4	22,000	A
Pioneer - Lugonia	2	7,000	A		4	19-21,000	B-C	
Lugonia - I-10 Fwy		4	17,000		B	4	25-27,000	D
I-10 Fwy - Citrus		4	22,000		C	4	21,000	B
Citrus - Highland		2	12,000		C	2	9-14,000	B-E
Highland - Elizabeth		2	--		--	2	9,000	B
<i>Judson St./Ford St.</i>								
Pioneer - Colton		2	2,000		A	2	5-8,000	A
Colton - I-10 Fwy	2	5,000	A		2	7-10,000	A-B	
<i>Wabash Ave.</i>								
Pioneer - Lugonia	2	2,000	A		2	3-7,000	A	
Lugonia - Citrus		2	6,000		A	2	7-9,000	A-B
Citrus - I-10 Fwy		2	2,000		A	2	7-13,000	A-D
<i>Crafton</i>								
San Bernardino - 5th		2	4-6,000		A	2	3-9,000	A
<i>Sand Canyon</i>								
East of Crafton		4	7,000		A	4	12,000	A
<i>San Timoteo Canyon Road</i>								
Brookside - Alessandro		2	3,000		A	2	11-18,000	B-C
Alessandro - Live Oaks		2	--		--	2	20,000	C

ADT = Average daily traffic volume; ranges indicate lowest and highest volumes in the segment.

LOS = Peak hour Level of Service; ranges indicate highest and lowest LOS in the segment.

Projected volumes assume buildout at General Plan density and intensity and continuation of present travel habits, and thus represent a "worst case" scenario. Where projected LOS is inconsistent with Policies 5.20a, b, or c, Policy 5.20f is designed to provide mitigation.

Implementing Policies: Collector and Local Streets

- 5.32e** Avoid adding traffic to streets carrying volumes above the standards in Policies 5.20a, b, and c and consider traffic control measures where volumes exceed the standards and perceived nuisance is severe.

Traffic above the standards may cause residents to become concerned about noise, speeding, child safety and loss of privacy. Typically, residents will become concerned when traffic reaches 3,000 vehicles per day.

Project design should orient residential units away from collector and local streets that are at or near the traffic acceptability thresholds. Where needed, possible control measures include stop signs, signals, channelization and barriers.

- 5.32f** Design short, discontinuous local streets to discourage use by through-traffic.

Implementation of proposed arterial and collector improvements will also reduce diversion to local streets.

- 5.32g** Provide for a network of collectors in the northwest and northeast areas to minimize traffic levels on San Bernardino Avenue, Lugonia Avenue, Orange and Texas Streets.

Much of the developed area north of Lugonia Avenue lacks collectors within the original half mile square agricultural road grid.

- 5.32h** Adopt design standards for hillside and rural areas.

5.33 Freeway Improvements

Although the Plan circulation system focuses on arterial and collector roadways, conditions on Interstate 10 and State Route 30 will affect and be affected by development in the Planning Area. Volumes projected for the I-10 freeway will exceed the capacity of the existing freeway, necessitating widening or major increases in the use of transit and other Travel Demand Management (TDM) techniques. (See Section 5.40.)

Guiding Policies: Freeway Improvements

- 5.33a** Work with California Department of Transportation (Caltrans) to achieve timely construction of freeway and interchange improvements.

Implementing Policies: Freeway Improvements

- 5.33b** Develop improvement plans for the SR 30 interchange at San Bernardino Avenue and for the I-10 freeway interchanges at Alabama Street, California Street and Mountain View Avenue to ensure adequate capacity to meet future needs associated with the *East Valley Corridor Specific Plan*.

Considerable traffic growth is projected at all freeway interchanges serving the East Valley Corridor. More detailed studies are necessary to determine the level and nature of possible interchange improvements needed.

5.33c Provide a SR 30 freeway crossing (no ramps) at Palmetto Avenue and widen I-10 crossings at Nevada Street to reduce overdependence on other freeway crossings such as San Bernardino Avenue, Alabama Street and California Street.

5.33d Seek funding for interchange improvements as needed to accommodate traffic growth in the East Valley Corridor.

Caltrans does not currently fund local interchange improvements to accommodate planned traffic growth. Alternative sources such as traffic impact fees must be considered. See also Policy 5.30e.

5.33e Seek funding for I-10/Wabash Avenue interchange improvements.

5.40 Travel Demand Management (TDM)

The term "Travel Demand Management" (TDM) refers to measures designed to reduce peak-period auto traffic. These include public transit, flexible working hours, carpooling and vanpooling, and incentives to increase the use of these alternatives. TDM has become increasingly important in maintaining acceptable levels of service on existing routes in the region.

In developing the network for the General Plan, transportation studies assumed that peak hour trip rates at major employment centers would be typical of current conditions. Based on this, LOS deficiencies were identified on freeway access routes into and out of the East Valley Corridor area at buildout. To achieve acceptable LOS, a 10 to 15 percent reduction in peak period trips would be needed relative to the number of trips that would be generated from the same building area without active promotion of trip reduction. Therefore, the TDM program is a necessary component of the Circulation Element. Current experience elsewhere indicates that peak period trip reduction exceeding 15 percent is not likely to be sustained over time. Because work trips are only a portion of peak period trips and small employers are less able to implement TDM measures, an overall reduction in peak period vehicle trips on the order of five percent is a realistic target.

Congestion Management Program

In accord with Proposition 111, passed in June 1990, the San Bernardino Associated Governments (SANBAG) adopted a countywide Congestion Management Program (CMP) on November 4, 1992. A key component of the CMP is a "trip reduction and travel demand" element to promote use of alternative modes and reduce peak period travel. Under provisions of the legislation, each local jurisdiction is required to adopt and implement a trip reduction and travel demand ordinance. These provisions are to be coordinated with the local air districts Southern California Air Quality Management District (SCAQMD) and San Bernardino County Air Pollution Control District (SBCAPCD). Table 5.3 lists some examples of travel demand strategies.

Transit

Redlands has four Omnitrans bus routes, but transit serves mainly persons who do not have access to a car and presently accounts for under one percent of overall travel in Redlands. When higher employment and residential densities are reached at full development, public transit should play a larger role in transportation in the area, particularly for commute trips that could be attracted to the East Valley Corridor and for trips by local residents to and from other employment centers in the region. Commuter rail service on the Santa Fe line has been extended from downtown Los Angeles as far east as San Bernardino; convenient feeder transit service from Redlands and park-and-ride facilities could make this attractive to some Redlands commuters. In the longer range (post-1995) commuter rail service may be extended from San Bernardino to Redlands, making the service more attractive for Redlands residents commuting to the west.

GP Table 5.3
Travel Demand Strategies

TDM ORDINANCE PROVISION OPTIONS	STRATEGIES WHICH EMPHASIZE AIR QUALITY	STRATEGIES WHICH HELP CONGESTION MANAGEMENT
Transportation Allowance Instead of Subsidized Parking	X	X
Ridesharing Ridesharing Transportation Allowance	X	X
Ridesharing Subsidy, Tax Credits or Fees for Solo Commuters	X	X
Ridesharing Parking Cost Subsidy	X	X
Ridematching	X	X
Guaranteed Ride Home	X	X
Flex-Time		X
Compressed Work Week	X	X
Telecommuting from Home	X	X
Telecommuting from Satellite Work Center	X	X
Transit Subsidies	X	X
Commuter Stores		
Marketing Programs	X	X
Expanded On-Site Amenities	X	X
Walking Showers and Lockers	X	X
Safe Walking Routes	X	X
Bicycling Showers and Lockers	X	X
Bicycling Information (Maps)	X	X
Regulate Medium & Large Employers	X	X

**GP Table 5.3
TRAVEL DEMAND STRATEGIES**

TDM ORDINANCE PROVISION OPTIONS	STRATEGIES WHICH EMPHASIZE AIR QUALITY	STRATEGIES WHICH HELP CONGESTION MANAGEMENT
Regulate Multi-Tenant Bldg Owners	X	X
Regulate Developers Require Mixed Use	X X	X X
Require Amenities that Reduce Need for Trips	X	X
Design Guidelines for Transit, Vanpools, Walking, & Bicycling	X	X
Increase Residential Densities at Transit Stations		X
Fee Credits for Bldg Designs Which Promote TDM Measures	X	X
Fee Credits for Building Remote Park & Ride Facilities		X
Parking Preferential Parking for Ridesharers	X	X
Subsidized Parking for Ridesharers	X	X
Remote Park & Ride Lots with Amenities		X
Support Zoning Code Variances for Commercial Uses Within Park & Ride Facilities		X
Provide Bicycle Parking	X	X
Lower Development Sq/Ft Ratios and Maximum Limits		X
Source: San Bernardino County CMP, 11/4/92 (Table prepared by Commuter Transportation Services)		

A coordinated system of regional as well as local transit routes appears necessary to maintain acceptable levels of service. Projections indicate the potential for traffic congestion in the I-10 and SR 30 corridors in the future, even with widening of portions of I-10 to 10 lanes and SR 30 to 6 lanes, as assumed for the General Plan analysis. This is a result of anticipated growth in all the communities within the corridor rather than just in the Planning Area.

Guiding Policies: TDM

- 5.40a Ensure that employers implement TDM programs to reduce peak period trip generation.
- 5.40b Cooperate with public agencies and other jurisdictions to promote local and regional public transit serving Redlands.
- 5.40c Support the Congestion Management Program for San Bernardino County.

Implementing Policies: TDM

- 5.40d In accordance with the CMP, develop and implement a comprehensive trip reduction and TDM ordinance for all employers in Redlands. The goal should be to reduce peak period trip generation by 15 percent from the vehicle trip generation currently observed at similar sites without a TDM program.

The TDM ordinance should incorporate a regular monitoring program to assess compliance and success. Future employment will be concentrated in the *East Valley Corridor Specific Plan* area, where congestion will make TDM most necessary and most effective.

- 5.40e Favor TDM measures that limit vehicle use over those that extend the commute hour.

Programs such as ridesharing and public transit reduce overall vehicle travel while flex time and staggered work hours simply shift traffic to less congested times of day.

- 5.40f Support local feeder bus service to and from current and future regional transit lines.

- 5.40g Preserve options for future transit use when designing improvements to roadways.

Currently, segments of Barton Road/Brookside Avenue, Cypress Street, Cajon Street, Fern Avenue, Orange Street, Lugonia Avenue, San Bernardino Avenue and Brockton Avenue are used by Omnitrans bus lines. Other streets, particularly in the East Valley Corridor, will be likely candidates for bus service as growth occurs.

- 5.40h Work with Omnitrans to plan for local bus routes that are better able to penetrate neighborhoods to improve service for potential riders. Designate local bus routes in Specific Plan areas.

- 5.40i Future commuter rail services are planned within the Santa Fe rail corridor, with stops at California Street, Orange Street and Mentone Blvd. Improvements to these streets should be planned for feeder transit services, and park-and-ride provisions should be made at these locations. Another logical stop would be at University Street to serve the campus at the University of Redlands. Other potential stops could be at Judson Street and at Crafton Avenue. Residents in these areas might use short, trip commuter rail to downtown Redlands, either to work or shop.

- 5.40j Work with Omnitrans to plan for bus shelters and turnouts.

- 5.40k Incorporate bus shelters and turnouts into design and approvals of new developments as necessary.

5.50 Bikeways

The relatively flat valley portion of Redlands, with about two-thirds of the Planning Area's potential residents and almost all of its jobs, is attractive for both bicycle commuters and recreational riders. The bicycle routes are adopted by resolution and consolidate previous City staff recommendations and designations of the *East Valley Corridor Specific Plan*.

"Bikeway" means all facilities that primarily provide for bicycle travel. Three categories of bikeways are defined:

Class I Bikeway (Bike Path or Bike Trail) Provides a completely separated right of way designated for the exclusive use of bicycles and pedestrians with cross flows by motorists minimized.

Class II Bikeway (Bike Lane) Provides a restrictive right of way designated for the exclusive or semi exclusive use of bicycles with through travel by motor vehicles or pedestrians prohibited, but with vehicle parking and crossflows by pedestrians and motorists permitted.

Class III Bikeways (Bike Route) Provides right of way designated by signs or permanent markings and shared with pedestrians and motorists.

Guiding Policies: Bikeways

- 5.50a Establish a comprehensive network of on- and off-roadway bike routes to encourage the use of bikes for both commute and recreational trips.
- 5.50b Seek assistance from major employers in providing support facilities to encourage use of bikes for commuter purposes.
- 5.50c Develop bike routes that provide access to schools and parks.

Implementing Policies: Bikeways

- 5.50e Designate a Class I route (bike path) along San Timoteo Canyon Road and/or along San Timoteo Canyon Creek.
- 5.50f Designate the Zanja corridor from downtown west as a Class I route (bike path).

This route could be used for access to jobs in the East Valley Corridor as well as a recreational route to the Santa Ana Wash.

- 5.50g Designate a Class I route adjacent to but outside the Santa Fe railroad right-of-way from New York Street in downtown Redlands to east of Wabash Avenue.

In conjunction with a north-south bike route on Opal Avenue, this bike route would provide convenient bicycle access to downtown as well as to the Santa Ana Wash.

- 5.50h Designate a Class I Route (bike path) along portions of California Street and Palmetto Avenue within the East Valley Corridor.

This route would serve major commute destinations within the East Valley Corridor.

- 5.50i Designate a Class I Route (bike path) along the Santa Ana River and extend the length of the City of Redlands.

- 5.50j Designate Class II routes (bike lanes) along portions of Cypress Avenue, Fern Avenue, Terracina Drive, Barton Road/Brookside Avenue, California Street, State Street, San Bernardino Avenue and Dearborn Street.

These routes, in combination with the Class I routes above, will provide good bike access between residential areas of Redlands and the East Valley Corridor.

- 5.50k Establish Class III routes (shared route) along collectors (Highland Avenue, Sunset Drive, Alessandro Road, Alta Vista Drive, Opal Street) and along minor arterials (San Mateo Street, 5th Avenue, Sand Canyon Road, Texas Street, Church Street and Orange Street).

- 5.50l Incorporate bike storage and other support facilities into TDM plans at employment sites and public facilities, when feasible based upon distance from bikeways.

Studies have indicated the importance of providing well-located, secure bike storage facilities at employment sites, shopping and recreational areas and schools in order to facilitate bike use. Employers often provide shower and changing facilities where sizable numbers of employees use bikes.

- 5.50m Prepare a bikeways implementation program that includes priorities and a schedule.

- 5.50n Publish and distribute a map showing existing and proposed bikeways in the Redlands Planning Area.

- 5.50o Plan and design bikeways with special consideration given to the safety of bicyclists and pedestrians.

5.60 Pedestrianways

Walking is discouraged by many city development practices intended to save money, facilitate traffic flow, or enhance security. Sidewalks often adjoin fast traffic lanes, parking lots lack pedestrian paths, and residential street systems make pedestrians walk much further than necessary. Finally, walking along arterial streets that do not provide access to adjoining properties is boring. The General Plan seeks to increase walking to school, to shop or work, and for pleasure.

Guiding Policies: Pedestrianways

- 5.60a Treat pedestrians as if they are more important than cars.

Except on freeways and a few hillside residential streets, pedestrians should have direct, safe routes to the same destinations.

- 5.60b Make walking interesting.

Avoiding long, uniform frontages and creating pedestrian paths that do not follow streets give people a reason to want to walk.

- 5.60c Provide direct pedestrian routes.

Owners' desires to live on cul-de-sacs, builders' desires to build less street, and the City's desire to minimize intersections combine to make pedestrian access circuitous in many neighborhoods. Direct paths to arterial street bus stops can increase transit patronage.

- 5.60d Provide a safe and healthful pedestrian environment.

This means providing separate pedestrianways in parking lots, avoiding excessive driveway widths, and providing planting strips between sidewalks and streets where feasible.

- 5.60e Develop a program to remove all barriers to disabled persons on arterial and collector streets.

5.70 Redlands Airport

The Redlands Municipal Airport, on the bluff adjoining the Santa Ana Wash between Judson Street and Wabash Avenue, is a City-owned, general aviation facility. Scheduled passenger service is not envisioned. The 1993 Airport Master Plan projects an increase in average daily aircraft operations from 230 in 1991 to 260 in 1995 to 326 in 2005 and 391 in 2015. Increases in demand for general aviation facilities have been lower than expected, but *East Valley Corridor Specific Plan* development may cause faster growth.

The projected area of noise impact, as defined by the Community Noise Equivalent Level (CNEL) 65 dB contour, within which single-family residential development is generally considered unacceptable, extends west to 750 feet west of Judson Street and east to a point 250 feet east of Opal Avenue in the year 2015. No homes exist within this area. The City has required dedication of an aviation easement as a condition of development approval for projects within one mile of the projected CNEL 65 dB contour.

Guiding Policies: Redlands Airport

- 5.70a Develop Redlands Airport to meet the general aviation needs of the Planning Area based on capabilities of the existing runway.

- 5.70b Maintain compatibility of airport operations with development in the surrounding area.

The 1993 Redlands Municipal Airport Master Plan found no adverse noise impact from current operations and no future impact if residential development is prohibited within the projected CNEL 60 dB contour. No significant current or future safety impact was identified.

Implementing Policies: Redlands Airport

- 5.70c Utilize the 1993 Redlands Municipal Airport Master Plan in planning for the growth and expansion of the airport and facilities.

- 5.70d Require use of aircraft noise abatement procedures for departures of aircraft.

- 5.70e Limit land use within the projected CNEL 60 dB contour to agriculture, open space, golf course, and light industry.

The General Plan Diagram reflects this policy.

- 5.70f Require dedication of an aviation easement as a condition of development approval for projects within one mile of the CNEL 65 dB contour.

Continuation of this policy alerts buyers to the proximity of the airport and protects the City from possible attempts to limit airport use.

- 5.70g Review the Comprehensive Airport Land Use Plan (CALUP) being prepared for Redlands Municipal Airport to ensure conformity between the CALUP and the General Plan.

- 5.70h Evaluate the compatibility of surrounding development with airport operations by using the Comprehensive Airport Land Use Plan during discretionary project reviews.

5.71 Southeast Area Circulation Issues and Policies

This section of the Circulation Element provides a discussion of circulation issues and policies specific to the Southeast Area of Redlands, in San Timoteo and Live Oak canyons. For a detailed discussion of land use and other policies for the Southeast Area, refer to Section 4.42 of the Land Use Element of this General Plan.

General Circulation Issues in the Southeast Area - Traffic has been one of the major issues related to the development of the Southeast Area. This issue has generally focused on congestion and, in particular, congestion in the surrounding community (for the most part congestion in the Sunset Drive area).

The issue of traffic congestion also applies to Alessandro Road, San Timoteo Canyon Road, Live Oak Canyon Road, and to the character of the traffic within the proposed development areas inside the Planning Sectors in the Southeast Area. (See Section 4.42 of the Land Use Element for a discussion of Planning Sectors in this area.)

The issue of traffic congestion in the Southeast Area is a system capacity issue which is far more complex than just one street section. For example, the Sunset Drive area has been developed with and is now committed to a very low capacity road system. Sunset Drive and its 11 side streets possess great character and charm, but have the capacity to carry only small amounts of traffic. Thus, additional traffic loading from any source will overload portions of the system almost immediately. Because the problem and therefore the solution is one involving a system, it cannot be substantially understood without a system analysis. Such an analysis can be done, but the cost will be substantial. The planning study for the Southeast Area Plan allocated only limited funds for traffic analysis; therefore, only a limited traffic analysis was completed.

Certain basic terms and concepts were used to analyze the traffic issues.

First, simplistically stated, traffic volumes are related to the surrounding development. The density of residential development selected for a given Planning Sector will have a direct effect on the number of vehicle trips generated within the Sector.

Second, traffic volumes are broken commonly into two categories for calculation purposes: **Average Daily Trips (ADT)** and **Peak Hour Trips (AM Peak and PM Peak)**. In most cases, roadways are designed to accommodate traffic at the peak time period (in most cases, approximately 7 to 9 a.m. and 4 to 6 p.m., the typical rush hours).

Third, roadways are evaluated by calculations of their "capacity," the volume of traffic that can pass along a given segment in a given time frame while maintaining adequate speeds and with an acceptable level of congestion. Because traffic must slow to execute turn movements, the capacity of the intersections along a roadway very often constraints capacity.

Fourth, the capacity of a segment of roadway to handle a given amount of peak traffic, the heaviest loading, becomes one common "measure of capacity" or capability of that segment of roadway. Another measure of capacity is the total average number of daily trips (ADT) which can be accommodated on the roadway.

Finally, the amount of congestion, or lack of same, is expressed in Levels of Service (LOS). Generally, LOS A (the best level of traffic flow) represents free flow; at LOS F (the worst level of congestion), traffic flow slows almost to a halt. LOS C is viewed by most traffic engineers and communities as "acceptable" and includes some congestion.

Using Level of Service C is the design standard in the Southeast Area, the following constraints currently exist:

Sunset Drive from Alessandro Road to approximately Alta Vista along much of its length currently operates Level of Service B. Traffic studies prepared for the Southeast Area Plan indicated that if Sunset Drive possessed a 40 mph design speed (that is, the speed at which vehicles could safely travel) which it does not it is at LOS B over most of its Alessandro to Alta Vista length. Factors not considered in the model are:

- The very narrow roadway cross section in many places along Sunset Drive.
- The numerous intersections and driveway entries.
- The tight turns, combined with the undulating roadbed.

The 40 mph design assumption was used because this is the slowest design speed available in the computer model used to prepare the traffic analysis. Because the actual design speed is less than 40 mph, the estimate of LOS B overstates the ability of traffic to flow on Sunset Drive; the actual LOS is probably lower (that is, more congestion is present than the computer model predicted).

If Level of Service C is acceptable and anything lower is not, then additional loading of Sunset Drive should be controlled to keep the level of service from going below LOS C. POLICY 5.71a provides specific guidance for future traffic analysis of Sunset Drive is accomplished.

Alessandro Road from San Timoteo Canyon Road up to Sunset Drive forms the western perimeter of the Southeast Area, and is the only link between the area and Redlands proper. Because of this, it appears Alessandro will be a major link from the study site to downtown Redlands unless there is specific design otherwise.

Beginning on Alessandro Road at San Timoteo Canyon Road and working north toward town, the first section of concern is the section centered on the San Timoteo crossing. The bridge and its northern approach currently appear marginal and require major revision. Research conducted for the Southeast Area Plan indicated that the bridge width is inadequate to accommodate even the lowest projected traffic volumes and needs to be widened, and that the curve to the north of the bridge needs to be straightened out. This may require an entire new bridge in a new location (probably to the west of the current location).

The section of Alessandro Road from the bridge to Sunset Drive appears to be basically adequate to accommodate projected development in the Southeast Area with some widening and minor realignment of a couple of curves.

The intersection at Alessandro Road/Sunset Drive appears to need restructuring whether or not the Southeast Area is developed. Once restructured, it appears this intersection could accommodate projected traffic volumes of the magnitude contemplated by the Southeast Area Plan. Depending on the density of development in the area, various intersection flow regulators (stop signs, signals, turn pockets, etc.) would be required, but it appears the intersection could accommodate the projected volumes if improved.

Alessandro Road north of Sunset Drive appears adequate to projected future demand, but its "T" intersection into Crescent and the indirect routing from there on into downtown Redlands results in limited additional capacity being available for through traffic.

Policy 5.71b addresses the need for a comprehensive study of Alessandro Road.

San Timoteo Canyon Road forms the southwestern boundary of the Southeast Area, and is the historical route linking Redlands to the Banning-Beaumont Pass area. When the I-10 freeway was constructed, the "through traffic" moved onto the freeway and San Timoteo Canyon Road began carrying mostly local traffic.

The fertile San Timoteo Canyon, with the San Timoteo Creek watercourse on one side, the mainline railroad down the center, and the roadway on the other side makes a major character statement in the Southeast Area. This statement consists of at least three ingredients:

First, the fertility of the valley has been historically stated by the presence of the citrus groves. Second, the important rail line and historic roadway linkage have stamped the canyon as a transportation corridor over the years. Third, and perhaps of unrealized impact to the area, the sounds of the large freight trains working their way through the canyon can be heard throughout the Southeast Area, and are a unique characteristic of the canyon specifically and the area in general.

Policy 4.42z, in the Land Use Element of this General Plan, addresses future planning along the San Timoteo Canyon Road corridor.

To accommodate regional growth, San Timoteo Canyon Road is projected on both the San Bernardino County and Riverside County master plans as a 4-lane divided highway with a carrying capacity in the range of 20,000 to 25,000 vehicles per day. In order to accommodate this expansion, the existing roadbed must be widened and realigned. It appears this upgrading of San Timoteo is a certainty in the near future. If this is the case, the question becomes: What should the alignment design of this new roadway be, since its capacity is basically predestined?

Policy 4.42bb, in the Land Use Element of this General Plan, expresses the City's position toward future development along San Timoteo Canyon Road.

Live Oak Canyon Road forms the southeastern boundary of the Southeast Area, and has historically provided a connection to Yucaipa, as well as local access. The perception of Live Oak Canyon is of a ribbon of fertile land astride a gorged canyon lined with Oak trees, the fertile narrow valley among the dry, brown hills. It is this perception this feel which appears to be the important characteristic of the canyon which should be preserved and enhanced.

This *perception* as a canyon consisting of a shallow gorge type watercourse lined with trees, however, is somewhat inaccurate. Close inspection reveals that this is only partially true since there are significant trees in certain locations, but not really continuous and with only a few oak trees in the mix. As development adjacent to this watercourse occurs, the watercourse itself will most likely become obscured from public view and its perception will fade unless steps are taken to prevent this from occurring. Also, unless steps are otherwise taken, it is likely the watercourse itself will be denaturalized by channelization, eliminating the trees and the existing gorge character. Thus, it appears that there needs to be a positive program initiated to ensure the continuance of the public perception of the gorged watercourse, the trees and the fertile ribbon so as to preserve this characteristic.

Policy 4.42y, in the Land Use Element, provides policy for retaining the character of Live Oak Canyon.

As is the case in San Timoteo Canyon, Live Oak Canyon Road is planned on both the San Bernardino County and Riverside County master plans as a 4 lane, divided highway with a design capability in the range of 20,000 to 25,000 trips per day in order to accommodate regional development. In order to accommodate this the existing roadbed is going to have to be widened and realigned in several locations and one or more major bridge structures built.

At this time, it appears the question is not whether, but when will this upgrading occur and what form will it take. The issue to be addressed in the Southeast Area, therefore, is where should the realignment be located and what should be the ultimate character of this arterial so that the ultimate result will possess the existing "fertile valley astride the gorged watercourse" feel identified above.

Policy 4.42aa addresses the City's position toward future development in Live Oak Canyon.

On-Site Roads: Because there are no local roadways of note in the Southeast Area, there is no historic character for roadways. There is, however, an overall perceived character for the area which logically dictates a roadway and traffic character. This overall perceived character is one of a low density, natural, rural feel and also leaves one mindful of certain natural constraints, such as hills, watercourses, rock outcroppings, and the like. Translated to roadway design terms, this indicates a design which will accommodate the volumes generated in a casual manner which is sensitive to the existing natural environment. This is to say that the system will not be perceived as being able to overcome all of the obstacles of nature by enough cutting and filling. As an example, roadways should be directed around stands of large trees rather than cutting through them, or should cross a watercourse on a bridge rather than bury the watercourse in an underground pipe.

This suggests a roadway system designed for relatively low speeds due to the necessity to follow the natural contours and avoid the inherent obstacles of nature. This in turn requires that adjacent land use densities be low to ensure that this slow speed system is not overloaded.

Policy 5.71c addresses the design of future roadways in the Southeast Area.

Planned Circulation in the Southeast Area - The following are plans and policies for future roadway improvements in the Southeast Area.

Alessandro Road: The Southeast Area Plan proposes to upgrade Alessandro Road from San Timoteo Canyon Road to Crescent Avenue. This will allow Alessandro Road to fulfill its western perimeter function in the circulation system with the minimum impact on adjacent land uses.

The Southeast Area Plan also attempts to absolutely minimize additional traffic demands on Alessandro Road by upgrading San Timoteo Canyon Road and Live Oak Canyon Road to route regional traffic around Alessandro Road.

Alessandro Road will require realignment and improvements to accommodate even a very low density of development in the Southeast Area. This intersection should be restructured, even though this will require a significant amount of grading.

The alignment of Alessandro from Sunset to the canyon mouth just before the river crossing should be improved in some places, but appears to be basically adequate as it currently exists.

The Alessandro bridge over the watercourse is inadequate in width to handle the projected traffic of even the lowest density scenarios developed for the Southeast Area. Consideration should be given to realignment of the roadway, widening of the bridge, and possibly the need for a relocated bridge.

Policy 5.71d addresses a future realignment and upgrading of Alessandro Road.

Sunset Drive: The Southeast Area Plan recognizes the severe capacity limitations present on Sunset Drive. The traffic study referred to above the most comprehensive conducted to date for the Southeast Area concluded that the current level of service on Sunset Drive from Alessandro Road to Alta Vista is at "B" at best, and is probably lower. Because service lower than level of service "C" is considered, almost universally, unacceptable, the Southeast Area Plan does not provide or require significant traffic connections directly to Sunset Drive. Except for Planning Sector 2, all access within the plan area is routed internally within the plan area and connects to the "outside" via Alessandro Road, San Timoteo Canyon Road, or Live Oak Canyon Road.

Planning Sector 2 is a plateau with existing access to Sunset Drive. Providing access to Live Oak Canyon Road would require extensive grading. Because of this, access from Sector 2 to Sunset Drive is anticipated, but must be carefully evaluated on a case-by-case basis.

Other similar situations involving small acreage of undeveloped property along Sunset Drive or feeder streets to Sunset Drive exist which would not be practical to access from Live Oak Canyon Road. Again, this is recognized in the Southeast Area Plan, but requires careful case by case analysis.

Several emergency only connections to Sunset Drive are proposed which are "not open-to-the-public" traffic ways.

San Timoteo Canyon Road: The existing and future regional arterial highway function of San Timoteo Canyon Road requires that the existing roadbed be significantly upgraded. San Timoteo Canyon Road is shown on both the San Bernardino County and Riverside County master plans as a 4-lane divided highway. The Southeast Area Plan proposes that this be accomplished in a timely manner to encourage regional trip users to pass around Redlands rather than attempting to pass through town via Alessandro Road, Crescent Avenue, and other local streets. Additionally, the plan proposes that the City of Redlands take a lead role in connecting the upgraded San Timoteo to the I-10 Freeway in the vicinity of I-10/California Street interchange. Again, the purpose of this proposal is to encourage regional users to drive around (rather than through) Redlands proper.

Live Oak Canyon Road: The Southeast Area Plan recognizes the need in the near future to upgrade Live Oak Canyon Road consistent with the San Bernardino and Riverside County master plans (as a 4-lane arterial highway). The Plan supports the proposition that this upgrading should be done in a timely manner consistent with the regional demand. The Plan strongly recommends that the City of Redlands take a strong active role to realign Live Oak Canyon Road next to the existing watercourse in such a manner as to form a scenic parkway with the watercourse as the backbone. This will not only accommodate the future traffic demands but will also result in a scenic highway which will preserve the gorged canyon signature characteristic of Live Oak Canyon and simultaneously provide Redlands with a distinctive southern boundary consistent with the City's historic image.

Internal Street System: The Southeast Area Plan proposes that the local street system within the area be designed in a manner subservient to the significant natural features present. The plan proposes that there be a perimeter road system around each major canyon bottom in the area. This perimeter road system is proposed as a combination scenic road and fire access/fuel modification facility (discussed in detail under Fire Prevention, below). This perimeter road should be, in turn, connected to one or more entry roads leading out of the natural mouth of the respective canyon and connecting to Alessandro, San Timoteo, or Live Oak as appropriate. Further, the cross sections of these perimeter roadways and the internal connectors thereto are proposed as rural standard two lane roads as depicted in GP Figure 4.4, Roadway Cross Sections.

Guiding Policies: Southeast Area

- 5.71a** Sunset Drive is at or near capacity. Therefore, significant additional traffic loads should not be placed on this roadway until a comprehensive traffic model, to include all the connector streets into the downtown area and freeway interchanges, shows that the additional load(s) can be accommodated with no section of the model performing below Level of Service C.
- 5.71b** A comprehensive design study of Alessandro Road from Crescent to San Timoteo Canyon Road shall be undertaken to redesign Alessandro Road to accommodate the traffic projected by the development of the Southeast Area Plan and to specifically address the currently inadequate narrow bridge, the curve approach to the bridge, the intersection with Sunset Drive, and the intersection with Crescent Avenue.
- 5.71c** Local roadways within the Southeast Area shall be designed for relatively low speeds, shall follow the natural contours and shall avoid rather than cut through the inherent obstacles of nature. It is recognized that this may require that adjacent land use densities be low to ensure that this slow speed/low volume system is not overloaded.
- 5.71d** Alessandro Road shall be realigned and upgraded, with specific attention to the Sunset Drive intersection and the San Timoteo Creek bridge crossing.

6.0 HOUSING ELEMENT SUMMARY

REDLANDS GENERAL PLAN

HOUSING ELEMENT
of the
General Plan for the City of Redlands

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EXECUTIVE SUMMARY

The 2002 Housing Element of the City of Redlands General Plan is its comprehensive statement of how the City intends to address current and future housing needs for all segments of the community. The Housing Element establishes priorities for how the City will invest its resources to meet state and national objectives for the attainment of decent housing and a suitable living environment for all citizens. The 2002 Housing Element identifies current and projected housing needs in the City of Redlands; sets forth goals, policies, and programs that address those needs; and includes quantified objectives for the construction, conservation, and preservation of housing. The Housing Element has been prepared to meet the requirements of State law.

PREPARATION AND ORGANIZATION

In accordance with State Law, the Housing Element is to be consistent and compatible with other General Plan Elements. This provides for clear policy and direction on making decisions pertaining to zoning, subdivision approval, housing allocations, and capital improvements. The contents of the Housing Element are mandated by State law according to Government Code Sections 65580 through 65589.

As the most recent Census data was prepared in 1990, the 1990 U.S. Census was utilized in formulating detailed data relevant to the Housing Needs Assessment. Where possible, more recent information from other sources was used to update and expand on the Census data. Chief among these other sources are the California Department of Finance (DOF) yearly estimates of housing units, households, and population; the Southern California Association of Governments (SCAG) regional estimates and projections; and data available from various other federal, state, and City agencies and organizations.

The policies and programs included in the 2002 Housing Element reflect the City's findings regarding its priority housing needs. These findings include:

- The City has a substantial stock of existing housing affordable to low- and moderate-income households that should be preserved if possible.
- There will be an ongoing need for additional housing affordable to low- and moderate-income residents. Although the City's preference is to facilitate home ownership whenever financially feasible, many low-income residents will not be able to afford to purchase homes. These households will need affordable rental housing.
- The City will continue to experience a growing demand for a range of senior housing, from fully independent living to congregate care to institutional care. There will continue to be a demand for a range of tenure options, from single family home ownership, to condominiums and townhomes, to rental apartments.
- As the housing stock continues to age, low-income homeowners lacking the financial resources to adequately maintain their homes may need assistance in home repairs.

POPULATION, INCOME, AND EMPLOYMENT TRENDS

Redlands is characterized by moderate growth that is slowly diversifying a largely middle-aged population. The City's 1999 population was about 67,000. Although the City's population grew by 46 percent in the 1980s and tripled since 1950, population growth has declined to 4.7 percent in the last decade and is expected to remain moderate through 2010.

The City's racial and ethnic composition has not changed significantly since 1980, even with an increase in minority populations. According to the 1990 Census, nearly 80 percent of the population was White, 18.6 percent were Hispanic, 4.4 percent were Asian/Pacific Islander, 3.9 percent were Black, less than one percent were Native American, and "Others" comprised 11.3 percent of the population.

Although Redlands is home to many families with children, middle-aged and older adults appear to be the fastest growing age groups in the City. Between 1980 and 1990 the percentage of people under age 19 slightly decreased, while the number of adults increased. People over age 65 comprised nearly 12 percent of the population, and an aging trend that shifts the median age upward is likely to continue. Although two-parent families with children at home represent a large block of the total household population, other types of households have increased at a faster pace, including single mothers, single adults with no children (particularly single women over 65), and childless couples. Over one-third (36 percent) of the City's households are represented by single adults.

Redlands is not a regional employment center, nor do the majority of its residents work in the City (about one-third). The City had a 1999 labor force of 28,000 workers (projected by SCAG to grow to nearly 35,000 by 2005) and an extremely low unemployment rate of only 2.6 percent. In comparison, the County's unemployment rate is 5.5 percent. Most residents were employed in service jobs such as sales, management, and professional positions. However, service jobs tend to be split between lower paying and higher paying managerial jobs, resulting in a wage gap. The East Valley Corridor Specific Plan could accommodate up to 90,000 jobs and greatly diversify the City's employment base, but few of these jobs will be created in the next five years.

In 1990, the median income was \$33,443 in the County and \$37,073 in the City. By 1999, the median income in the County increased to \$47,200. Based on the 1990 U.S. Census, the City's income distribution is similar to the countywide distribution: two in five residents were low-income, one in five moderate-income, and two in five above moderate-income. The City has a slightly lower percentage of low-income and a slightly higher percentage of above moderate-income households, however. Among the groups most likely to be low income were residents over 65 years of age and single mothers. Seniors had a substantially lower poverty rate, while nearly one-third of single mothers were below the poverty level of income.

EXISTING HOUSING STOCK

Although Redlands experienced rapid housing growth during the 1980s, housing growth declined in the 1990s to levels that had not occurred since the 1940s. Similarly, SCAG's housing projections have decreased from a 2.8 percent annual growth rate in 1989 to a 1.0 percent growth rate in 1999. A shift in housing trends has also occurred according to the type of units built. During the 1980s a higher percentage of multi-family housing units were constructed than in previous years, partially due to the 1984-85 exemption from Proposition R annual housing unit limits. At that time, about one-third of new dwelling units were multi-family. Multi-family construction dropped sharply during the 1990s. In 1998, 100 percent of all units built were single-family detached units. However, in 1999, single-family detached units only accounted for 54 percent of all units built, due to the development of additional mobile home units and the 62-unit Fern Lodge Senior Housing project. Even though residential construction decreased during the 1990s, vacancy rates remained steady at 5.2 percent (generally considered to be adequate for consumer choice and movement).

About 60 percent of the City's occupied housing units were owner-occupied in 1990, below the countywide average. This reflects the high rate of apartment construction during the 1980s. Not surprisingly, the highest percentage of home owners were between the ages of 35 and 44, followed by individuals 55 years of age and over. The highest percentage of renters were below age 35.

The City's housing stock is in good conditions, with the exception of pockets of substandard housing. Most of the housing units in the City were constructed since the late 1960s. Older homes, even those over 60 years old, are in better condition than might be expected due to their historic character and value. Substandard housing conditions appear to be concentrated in portions of the northern section of the City, which has a high number of older rental apartments and modest single-family homes.

According to 1990 U.S. Census data, overcrowding only affected 5 percent of the occupied housing units. Nine percent of all renter-occupied and 3 percent of all owner-occupied units in 1990 were overcrowded. Of the 1,180 overcrowded households, 452 were severely overcrowded. Since overcrowding data is not available by income level or household type, overcrowding must be evaluated in terms of other factors such as cultural expectations, size of rooms, and the age and relationship of persons in the unit. Most owner-occupied housing units in the City had between four and six rooms with approximately 2.7 persons per occupied unit.

Median home prices are rising in the City, coinciding with improved economic conditions in the region. The median home price as of October 1999 was \$149,500 according to the California Association of Realtors (CAR), although analysis of current for-sale listings at the end of 1999 showed an average price of \$365,139. Some of the smaller homes within new housing developments are priced just above \$149,500. Rents range from \$250 for the least-expensive studio apartments to over \$900 for three-bedroom apartments. Townhouses and homes rent for \$575 to \$900 per month for two-bedroom units, and \$800 to \$1,200 for three-bedroom units. There are also a few hotels in the City offering rooms to rent for \$102 to \$175 per week. Mobile home space rentals range from \$193 to \$439 per month.

Assisted housing projects and programs are available to assist people unable to afford housing costs. The San Bernardino County Housing Authority operates public housing units in the City, although there are waiting lists for these units. The Housing Authority also administers the HUD Section 8 Certificate and Voucher program. Over 100 units are leased through this program. In addition, vouchers are given to families who are unable to afford local rents so that they can receive at least a partial subsidy. The City has also used Mortgage Revenue Bonds, HUD Section 202 assistance, HOME funds for dwelling rehabilitation, Community Development Block Grant (CDBG) funds, and local redevelopment housing set-aside funds to assist in the construction and preservation of affordable housing.

According to the 1990 Census, about one-fourth (27 percent) of home owners and nearly one half (42 percent) of renters pay 30 percent or more of their income on housing. Most housing experts consider 30 percent to be the maximum proportion of a household's income that should be spent on housing without sacrificing other needs. Not surprisingly, over three-fourths of very low-income renters pay in excess of 30 percent of their income for housing. Very low-income renters were three to four times more likely than other groups to pay more than 30 percent of their incomes for housing.

According to the 1990 U.S. Census, the City's median rent was \$588 per month, which was \$170 above the affordability level for those with very low incomes. Only 13 percent of the City's rentals were affordable to very low-income households. However, 65 percent of the rentals were affordable to low-income households, and 92 percent were affordable to moderate-income households. In contrast, very few (11 percent) of the homes currently for sale are affordable to those with moderate incomes. Although the CAR reports that 57 percent of the households in the Riverside-San Bernardino region can afford the median resale price of \$115,570, very low-income and low-income households cannot afford the median price based on the 1999 median income of \$47,200. Using the current median income, low-income households could afford any of the two-bedroom and most of the three-bedroom apartments in the City.

HOUSING NEEDS

The Southern California Association of Governments (SCAG) produces Regional Housing Needs Assessment (RHNA) projections for various cities in its sphere of influence. SCAG's 1998-2005 RHNA projections indicate that a total of 1,931 new units will need to be constructed to accommodate Redlands' new households. Since 1998, 337 units have been constructed or are currently under construction. RHNA projections are also broken down by income. Of the total allocation, 353 units are allocated for very low-income households, 289 units are allocated for low-income households, 388 units are allocated for moderate-income households, and above moderate-income households have been allocated 901 units.

Special Housing Needs

Special housing needs exist due to the unique physical or financial characteristics of certain population groups that make it difficult for them to obtain housing that meets their needs in the private market. Among the population groups typically assumed to have special housing needs are seniors, large families, female-headed households, farmworkers, individuals with disabilities, the homeless, and low-income renters occupying subsidized housing at-risk of conversion to market rate housing.

Seniors: Older adults (age 65 and over) represented 11.9 percent of the City's population, and a large percentage are low-income. Senior needs can range from financial assistance for home repair, to accessibility modifications to their homes, to assistance with daily living in a congregate care environment. Several housing projects designed specifically for seniors have been constructed or are under construction in the City. Because a larger percentage of older adults own their homes than any other age group, home maintenance and mobility within the home are among the most important needs. As they grow older, many seniors will look for alternatives to their single-family homes to meet their daily needs.

Large Families: Large families (families with five or more members) require homes with three or more bedrooms, which are often more costly than what a low- or moderate-income large family can afford. Over 11 percent of the households in Redlands are large families, and there are currently no vacancies in the Housing Authority's 12 large units. Although single-family homes comprised 18.5 percent of all rentals, there are few large apartments in the City, particularly at affordable rates. Of the 2,513 large families, 1,565 owned their homes. However, 948 were renters, some of who may have difficulty simply finding a rental large enough to suit their needs, let alone a rental that is also affordable.

Female-Headed Households: Female-headed households comprise the majority of Section 8 households in Redlands. Although the percentage of female-headed households with children below the poverty level is higher than any other group, their overall numbers are low in relation to other special needs groups. However, low-cost housing is needed, particularly units close to schools or childcare centers. The City has no current plans for such housing but has agreed to contribute to a shared living project in Highland serving single mothers in Redlands and adjacent cities.

Farmworkers: Although the citrus industry is prevalent in Redlands, it is one in which workers are primarily year-round residents. The Housing Authority reports no knowledge of migrant workers in the County nor of any programs established for their needs. Since the need for migrant worker housing is small to non-existent, it does not represent a significant housing need in Redlands.

Persons with Disabilities: According to the 1990 U.S. Census, there were 1,575 persons between the ages of 16 and 64 with mobility/self-care limitations and/or work limitations, the majority of which had only a work disability. An additional 5,352 people over age 65 also had limitations, although the majority had mobility/self-care limitations. Some do require supervision, which can be achieved in a group home environment, and others may need specially designed housing or may need to be located near transportation access points or shopping centers. According to the Department of Social Services Community Care Licensing Division, there are 3 adult facilities with a total capacity for 53 residents and 19 senior facilities with a total capacity for 313 residents in Redlands. The City has also contributed funds for a care facility for mentally disabled persons that serves San Bernardino and Riverside Counties.

Homeless Needs: Estimates of the number of homeless in Redlands vary as it is difficult to obtain an accurate count. Based on information provided by the Redlands Police Department, the Family Service Association of Redlands, and the Salvation Army, there may be between 45 to 450 homeless persons in Redlands. There are several non-profit organizations in Redlands that assist homeless people on a daily basis including the Salvation Army, Family Service Association, Project Home Again, Option House, Inland Temporary Home, Delaware Home, and the East Valley Information and Referral Service. All of the organizations help the homeless find shelter either through the distribution of vouchers or through their own emergency shelters. The Inland Temporary Home offers 20 on-site beds, and the Delaware House for persons age 55 and over offers 15 on-site beds. The City has no public programs for dealing with the homeless but can assist agencies serving the homeless through the financial assistance of CDBG and Redevelopment Agency funds.

Overcrowded conditions and overpayment for housing can lead to homelessness and are indicators of housing need. There were 1,180 overcrowded households in Redlands in 1990, of which 728 were moderately overcrowded and 452 were severely overcrowded. In comparison with the County, the City does not have a significant overcrowding problem.

"At-risk" Rental Housing: Of the three HUD financed housing projects in the City, subsidies for two projects expire by 2000, which may result in a loss of 219 units. The third project has 74 units and is due to expire in 2010. The estimated cost for providing new rental housing, comparable in size and rent, is at least \$13.2 million for a 219-unit project. The City of Redlands currently works with the County of San Bernardino, Department of Housing and Community Development Department, to assist in developing housing programs and funds for providing and maintaining low-income housing. Specific programs that the City has identified for preserving these low-income units include the use of CDBG funds and set-aside funds from the Redlands Redevelopment Agency.

In conclusion, the City can address its housing needs by accommodating additional senior housing and large family units; by providing more affordable units for single parents located near transportation, shopping centers, and schools and childcare facilities; and by assisting in the preservation of existing subsidized rental housing.

ABILITY TO MEET HOUSING NEEDS

In Redlands, the most significant possible constraint to a large amount of residential development is Proposition R, as amended by Measure N, a zoning ordinance that limits residential dwelling units constructed within the City to 400 units per year and limits the extension of utilities to 150 units per year outside the existing City limits. While these initiatives reduce the rate of development from the high levels experienced during the 1980s, actual construction during the 1990s has been well below the Measure N limits. The City's seven-year RHNA allocation (1,931 units) is also substantially less than permitted under

Measure N. The City has adequate "development ready" vacant land (land that is served by infrastructure or to which infrastructure can be readily extended), including sites zoned at higher densities to meet the needs of all income groups.

One provision of Measure U was to amend the Redlands General Plan Policy 4.4 (q) to read: "Plan for a housing mix at buildout consisting of 75 percent single family dwelling units and 25 percent multifamily dwelling units." As of October, 2000, Redlands had a total of 24,798 dwelling units in its housing stock. Of these, approximately 71 percent were single family dwellings and approximately 29 percent were multifamily dwelling units. *Subsequent analysis indicated that with a combination of existing and future build out units, based on adopted guidelines of the City Council, there would be 25,555 single family units (73.5%) and 9,210 multi-family units (26.5%). After considerable discussion, a committee formed by the Council to study this issue determined that no land use changes were needed at this time. This was based on the conclusion that there are too many variables in making future growth decisions and it was appropriate to allow development to occur under the current general plan land use map and monitor results periodically.*

Absent development constraints from growth management or the availability of vacant land, one of the most important factors affecting the feasibility of producing affordable housing is the total cost of development and permit fees. For a single-family dwelling, these fees can total over than \$25,000, more than 15 percent of the cost of a median-priced home. For a multi-family project, the per unit cost of fees is substantially lower, but still represents 10 to 15 percent of the total cost of a dwelling unit.

FIVE-YEAR HOUSING PROGRAM

Redlands' housing programs are guided by the following policies:

- Participate in programs assisting in the production of housing affordable to very low-, low-, and moderate-income households.
- Ensure that units produced for very low-, low- and moderate-income households are made available to those groups and maintained as affordable units.
- Provide for a geographic dispersal of units affordable to very low-, low- and moderate-income households.
- Ensure that the City's plans, codes, regulations, and ordinances, as well as housing program incentives, encourage the provision of a mix of housing types that are responsive to household size, income, and accessibility needs.

To implement these policies, Redlands has pursued a number of programs that emphasize accommodating a wide range of housing types (from large lot estate homes to single room occupancy units), encouraging the production of housing for seniors and other special needs groups, providing financial assistance to low-income home owners for home repairs, working with the San Bernardino County Housing Authority to increase the number of available subsidized rental units, and assuring equal access to the housing market without discrimination.

1.0 INTRODUCTION TO THE HOUSING ELEMENT

1.1 HOUSING AS PART OF THE GENERAL PLAN PROCESS

The Redlands Housing Element was prepared as part of a comprehensive revision of the Redlands General Plan that began in May 1988. The draft Housing Element was submitted to the State Department of Housing and Community Development (HCD) in accordance with Government Code Section 65585(b) in August 1989. The City updated the Housing Element and submitted a revised draft to HCD in March 1994. The revised Housing Element was adopted in 1995. This second revision of the Housing Element, which includes an evaluation of City achievements under the 1995 element, covers the period 2000-2005.

(Note: The SCAG Regional Housing Needs Assessment (RHNA) discussion and the analysis of subsidized housing units at-risk of conversion to market rate housing, cover time periods outside the 2000-2005 five-year time period that is required by state law. The SCAG has created the RHNA allocation to cover the period between 1998 and 2005. The analysis of housing units at-risk of conversion to market rate covers a 10 year period through 2010 in order to identify those units that may convert prematurely or soon after 2005.)

1.2 THE 1995 HOUSING ELEMENT

Policies of the 1995 Housing Element were reviewed and evaluated in preparing the 2000 Housing Element. The City's success in implementing the quantified objectives of the 1995 element is evaluated in Section 5.3.

1.3 HOUSING ELEMENT REQUIREMENTS

To a greater extent than any part of the General Plan, the contents of the Housing Element are prescribed by State law. Government Code Sections 65580 through 65589 set forth requirements for the preparation and content of housing elements. By law, the Housing Element must contain:

- An assessment of housing needs and an inventory of resources and constraints relevant to meeting those needs;
- A statement of the community's goals, quantified objectives, and policies relevant to the maintenance, improvement and development of housing; and
- A program that sets forth a five-year schedule of actions that the local government is undertaking or intends to undertake to implement the policies and achieve the goals and objectives of the Housing Element.

The housing program must identify adequate residential sites available for a variety of housing types for all income levels; assist in developing adequate housing to meet the needs of low- and moderate-income households; address governmental constraints to housing maintenance, improvement, and development; conserve and improve the condition of the existing affordable housing stock; and promote housing opportunities for all persons. Table 1-1 provides an index to state-required Housing Element components.

Table 1-1
Index to Required Housing Element Components

Statutory Requirement	Section(s)	Page
An analysis of population and employment trends and documentation of projections.	2.2, 2.6	18
Analysis of housing stock characteristics.	3.0	24-30
A quantification of the locality's existing and projected housing needs for all income levels.	4.1	42, 48
An analysis of any special housing needs, such as those of the handicapped, elderly, large families, farm- workers, families with female heads of households, and families and persons in need of emergency shelter.	4.2	43-47
Housing characteristics, including overcrowding.	3.4, 4.3	24-30
An analysis and documentation of household characteristics, including level of payment compared to ability to pay.	2.5, 3.7	38-41
An analysis of existing assisted housing developments that are eligible to change from low-income housing uses during the next 10 years due to termination of subsidy contracts, mortgage prepayment, or expiration of restrictions on use.	4.4	50-55
A listing of each development by project name and address, the type of governmental assistance received, the earliest possible date of change from low-income use, and the total number of elderly and non-elderly units that could be lost from the locality's low-income housing stock in each year during the 10-year period.	4.4	52
The total cost of producing new rental housing that is comparable in size and rent levels, the total cost of replacing the units that could change from low-income use, and an estimated cost of preserving the assisted housing developments.	4.4	68-69
Identification of public and private non-profit corporations known to the local government which have legal and managerial capacity to acquire and manage these housing developments.	4.5	55
Identification and consideration of the use of all federal, state and local financing and subsidy programs which can be used to preserve housing for lower income households.	4.5	84-105
An analysis of potential and actual governmental constraints upon the maintenance, improvement, or development of housing for all income levels, including land use controls, building codes and their enforcement, site improvements, fees and other exactions required of developers, and local processing and permit procedures.	5.1	58-68
An analysis of potential and actual non-governmental constraints upon the maintenance, improvement, or development of housing for all income levels, including the availability of financing, the price of land, and the cost of construction.	5.2	68-69
An inventory of land suitable for residential development, including vacant sites and sites having potential for redevelopment, and an analysis of the relationship of zoning and public facilities and services to these sites.	5.4	80-83
Identification of the agencies and officials responsible for the implementation of the various actions and the means by which consistency will be achieved with other general plan elements and community goals.	6.0	86
A statement of the community's goals, quantified objectives, and policies relative to the maintenance, preservation, improvement, and development of housing.	6.0	86
A program which sets forth a five-year schedule of actions the local government is undertaking or intends to undertake to implement the policies and achieve the goals and objectives of the housing element.	6.0	84
Quantified objectives that establish the maximum number of housing units by income category that can be constructed, rehabilitated, and conserved over a five-year time period.	6.1	85

Table 1-1
Index to Required Housing Element Components

Statutory Requirement	Section(s)	Page
Identification of adequate sites which will be made available through appropriate zoning and development standards and provided with public services and facilities needed to facilitate and encourage the development of a variety of types of housing for all income levels.	5.4	80
An analysis of opportunities for energy conservation with respect to residential development.	6.7	56

1.4 PUBLIC PARTICIPATION

Redlands has a seven-member Housing Commission appointed by the City Council that participated in the review and drafting of the Housing Element. The commission members represent a variety of economic, professional, and geographic backgrounds. The Housing Commission has separately reviewed the material and presented its views. Public hearings as required by law were held by the Planning Commission and the City Council prior to adoption of the Housing Element.

To solicit public participation and comment, the City conducted a workshop on January 18, 2000, on the findings and conclusions of a housing needs assessment report that was used to support the revisions of the Housing Element. Public hearings before the Planning Commission were conducted on January 13 and June 13, 2000, and before the City Council on July 18, September 5, October 3, October 17, and November 21, 2000. Notice of these hearings was provided by display ads in the local newspaper.

The City made a diligent effort to achieve public participation of all economic segments of the community in the development of the element. In addition to required notices in the local newspaper and public hearings before the Planning Commission and City Council, the City involved a number of other agencies in the review process as well. Two workshops were held early in the process with the City Housing Commission to review the initial work program and to review the draft document. Staff also worked with the following agencies in the review and adoption of the element:

- Building Industry Association Baldy View Chapter
- United Way - East Valley
- Salvation Army
- Housing Authority
- County of San Bernardino Department of Housing and Community Development
- Frazee Community Center
- Project Home Again
- Habitat for Humanity
- Northside Advisory Committee
- Inland Temporary Homes

1.5 INFORMATION SOURCES

The most comprehensive and authoritative source of information on population and housing is the United States Census. Both the 1980 and 1990 census were utilized in formulating detailed data relevant to this Housing Element. Although the 1980 census may seem outdated, it still provides valid information for trend analysis and straight line projections for describing certain current conditions.

Where possible and appropriate, information from other sources was used to update and expand on the United States Census data. Chief among these other sources are the California Department of Finance (DOF) yearly estimates of housing units, households, and population; the Southern California Association of Governments (SCAG) regional estimates and projections; the Upclose Profile and Urban Decision System (UDS); and private firms that use government data for detailed local estimates and projections of demographic and economic trends. In addition, representatives of the Federal Housing Administration (FHA) and of the California Department of Housing and Community Development (HCD) were contacted, as well as officials and private citizens in Redlands itself.

1.6 CONSISTENCY WITH GENERAL PLAN

In accordance with State law, the Housing Element and other elements of the General Plan have been reviewed and evaluated so as to be consistent and compatible. This provides for clear policy and direction on making decisions pertaining to zoning, subdivision approval, housing allocations, and capital improvements. If a policy is identified as being inconsistent with another policy in the document, an amendment to the General Plan shall be initiated to resolve and eliminate the inconsistency.

Growth Management Element

Implementation of the Housing Element will not require the amendment of the Growth Management Element. Although the Growth Management Element limits growth under Measures N and U, these limitations do not constrain the City's ability to meet the projected RHNA requirements, as discussed further in this document. None of the policies in the Housing Element for housing growth will require amendment of the Growth Management Element.

City Design and Preservation Element

None of the revised Housing Element policies will conflict with the policies established under the City Design and Preservation Element. Implementation of the Housing Element policies works in conjunction with the City Design and Preservation policies to reinforce housing preservation and historic preservation goals. Together, these elements maintain the housing stock in the City and, therefore, are consistent with each other.

Land Use Element

Implementation of the Housing Element will not require amendment of the Land Use Element or Map. The number of dwelling units set by the City as its quantified objective for the period 2000-2005 is within the existing Land Use Element estimate at build-out. None of the policies or actions in the Housing Element for the preservation or conservation of existing affordable housing will require amendment of the Land Use Element. The Housing Element is consistent with Land Use Element standards of density and building intensity.

Circulation Element

None of the policies or programs in the updated Housing Element will require the construction, extension, or widening of streets beyond that already anticipated in the Circulation Element. Implementation of the Housing Element will not impact current circulation policies for pedestrian, bicycle, public transit, or other alternative modes of transportation. The updated Housing Element will not require changes to Circulation Element policies addressing street improvement standards.

Open Space and Conservation Element

None of the policies or programs in the updated Housing Element will require conversion of open space or park areas for residential use or significantly impact the use of these resources for their intended purposes beyond the level already anticipated in the General Plan. In addition, Housing Element energy conservation policy 6.7.1 supplements, enhances, and reinforces the energy conservation policies listed in this General Plan element.

Health and Safety Element

None of the revised Housing Element policies or actions will expose residents to health or safety hazards that are not already addressed in the General Plan. Implementation of the Housing Element will not create additional, unanticipated health or safety hazards or alter land use patterns or densities in a manner that could expose residents to additional hazards.

Noise Element

None of the Housing Element policies or actions will affect policies in the Noise Element or significantly affect major sources of community noise. Implementation of the Housing Element will not expose residents to levels of noise that are not already addressed in the Noise Element.

Human Services Element

Implementation of the Housing Element policies will not affect the policies within the Human Services Element or significantly impede the ability of the City to provide services such as education, recreation, health, day care, family needs, or human service coordination. Many Housing Element policies act in conjunction with Human Services Element policies in that they provide means to fulfill the housing needs of the community and special needs groups within the community, and therefore augment City efforts to meet the needs of the community.

Economic Development Element

Implementation of the Housing Element will not require an amendment of the Economic Development Element. Housing Element policy 6.4.6 maintains current mixed use zones, however this does not negatively impact economic development goals, and can encourage new economic activity to the area. In addition, the provision of housing services and housing repair services retains citizens and attracts economic activity through housing improvements. Therefore, the Housing Element policies would not hinder positive economic development.

The City of Houston, Texas, is pleased to announce the results of the recent public hearing held on the proposed ordinance. The hearing was held on the 15th day of January, 2024, at the City Hall, Houston, Texas. The proposed ordinance, which was introduced by Councilmember [Name], was discussed and debated by the public and the City Council. The City Council has decided to approve the ordinance as presented.

The ordinance is designed to [purpose of ordinance] and is intended to [benefit of ordinance]. The City Council believes that this ordinance is in the best interest of the City of Houston and its residents. The ordinance will be effective upon its adoption by the City Council.

The City Council has also decided to [other action]. This decision was made after a thorough review of the ordinance and the public input received during the hearing. The City Council is committed to transparency and public participation in the legislative process. The ordinance will be included in the City's official records and will be made available to the public.

The City of Houston, Texas, is committed to providing the highest quality of services to its residents. The City Council's decision to approve this ordinance is a testament to its dedication to the community. The City will continue to work with the public to address their needs and concerns.

The City of Houston, Texas, is a vibrant and diverse community. The City Council is proud to represent the people of Houston and to work for the betterment of the city. The ordinance is a step towards achieving the City's goals and vision for the future.

2.0 POPULATION AND EMPLOYMENT

2.1 GENERAL CONTEXT/CHARACTERISTICS

Over the past 100 years Redlands has evolved from an "ideal residential and agrarian community" to a diversified but still primarily residential city of 66,866 (California Department of Finance [DOF] January 1999). Redlands is a bedroom community to the extent that in 1990, only 33 percent of its employed population worked in Redlands. Since then, the amount of out-commuting has likely increased in keeping with the Southern California Association of Government's (SCAG) projection to 2010 for the East San Bernardino Valley Subregion.

In 1990 only 16 percent of people in Redlands commuted out of San Bernardino County. This number represents an increase of 3 percent over the figure reflected in the 1980 census. It is anticipated that this number will continue to increase due to the present economic boom in California and because the Redlands housing prices are significantly lower than Los Angeles and Orange Counties.

SCAG's Regional Housing Needs Assessment (RHNA) for 1988 estimated that 19.2 percent of all households in East Valley cities were low-income households paying more than 30 percent of their income for shelter. In Redlands this group was 25 percent of all households.

From its earliest years many of Redlands' residents have been attracted by its residential environment rather than its job opportunities. During the 1970s, 1980s, and 1990s, as residents became aware of the prospect of a continuous pattern of urban development in the East Valley similar to that in the Los Angeles Basin, they took steps to preserve Redlands as a free-standing community surrounded by citrus groves. A \$7 million bond issue approved in 1987 is being used to acquire park and open space to preserve the greenbelt around the community.

2.2 POPULATION TRENDS

Redlands' 46.7 percent growth between 1980 and 1990 reflects a rapidly growing City population. During the period 1980-1993, Redlands' population grew at an annual compounded rate of 3.5 percent. Table 2-1 shows that Redlands' population has more than tripled since 1950. This rapid growth has converted many former citrus groves to residential uses and, in turn, has shifted the economic base of the community from predominantly agricultural to service-related industries. Table 2-2 shows a growth comparison between Redlands and San Bernardino County. During the 1970s Redlands' growth rate at 20 percent was 10 percent less than the County, which recorded a 30.8 percent growth rate. In the 1980s, Redlands closed the gap with 38.5 percent growth while the County produced a growth of 41.9 percent. In the 1990s, growth for both the City and the County slowed to 4.7 percent and 16.6 percent respectively. Overall, the County population's rate of growth has exceeded that of the City of Redlands due primarily to a higher demand for housing on the County's west side. Population growth declined dramatically during the 1990s and is expected to remain moderate during the first decade of the 21st century.

Table 2-1
Redlands Population Since Incorporation
1888-1993

Year	Population	Percent Increase
1888 ^a	1,000	N/A
1900	4,797	379.7
1910	10,440	117.6
1920	9,874	(5.4)
1930	14,162	43.4
1940	14,324	1.1
1950	18,429	28.7
1960	26,829	45.6
1970	36,355	35.5
1980	43,619	20.0
1990	60,394	38.5
1999	66,866	4.7

^aDate of Incorporation for City of Redlands
 Sources: 1990 U.S. Census; DOF 1999

Table 2-2
City and County Comparative Population Trends
1970-1990

Jurisdiction	1970	1980	Percent Increase 1970-80	1990	Percent Increase 1980-90	1999	Percent Increase 1990-99
City of Redlands	36,355	43,619	20.0	60,394	38.5	66,866	4.7
San Bernardino County (total of incorporated and unincorporated areas - including Redlands)	684,072	895,016	30.8	1,270,000	41.9	1,654,000	16.6

Sources: U.S. Census, 1970, 1980, and 1990; County Department of Economic Development, 1999 Demographic Profile

2.3 RACE AND ETHNICITY

Table 2-3 shows that the racial characteristics of Redlands have remained essentially the same between 1980 and 1990. The number of Whites declined from 93.5 to 79.7 percent, while the number of Blacks, Native Americans, Asian/Pacific Islanders, and Others increased. The number of Spanish/Hispanics also increased. It appears that much of the increase in the "Other" category over the 1980 Census data is the result of a more detailed breakdown of the "White" segment of the population.

Table 2-3
Redlands Race and Ethnicity (1980-1990)

Race/Ethnicity	1980		1990	
	Number	Percent	Number	Percent
Native American/Aleutian	306	0.7	401	0.7
Asian/Pacific Islander	961	2.2	2,684	4.4
Black	1,175	2.7	2,349	3.9
White	40,777	93.5	48,137	79.7
Other	400	0.4	6,823	11.3
Total	43,619	100.0	60,394	100.0
Spanish/Hispanic	7,440	17.1	11,246	18.6

Sources: U.S. Census, 1980 and 1990

*Population of Hispanic origin is not racial category and is included as a percentage of the other population groups.

2.4 AGE CHARACTERISTICS

According to Upclose Profiles (1990), despite rapid population growth, the characteristics of the City's population did not change much from 1980 to 1990. Table 2-4 shows that the only significant change has been the general aging of the population. The percentage of people under 19 has decreased slightly, while the percentage of persons over age 25 has increased. The greatest increase occurred in the number of working age population between the ages of 25 and 44, which grew from 28.5 to 33 percent. The median age increased from about 30 years of age to 34 years. People 65 years and older constituted 11.9 percent of the total population in 1990, a slight increase over 11.7 percent in 1980. This aging trend is likely to continue given national demographic trends. Whether this trend continues in Redlands will depend on the desire of current residents to remain in the City as they age and the availability of housing and support services that meet their changing needs.

Table 2-4
Redlands Population Age Characteristics
1980-1990

Age Range	1980		1990 ^a	
	Number	Percent	Number	Percent
0-5	3,588	8.2	5,596	9.1
6-13	5,277	12.1	7,470	12.3
14-17	3,132	7.2	3,228	5.6
18-20	2,649	6.1	2,731	4.8
21-24	3,222	7.4	3,537	6.0
25-34	7,259	16.6	10,199	16.8
35-44	5,190	11.9	9,613	16.2
45-54	4,245	9.7	6,472	10.1
55-64	3,972	9.1	4,433	7.2
65 +	5,082	11.7	7,115	11.9
Total	43,616	100.0	60,394	100.00
Median Age	30.3		34.0	

^aSources: 1990 U.S. Census; Upclose Profiles™, 1990

Table 2-5 provides a comparison of family type and age of children. Of the 14,775 children that reside in Redlands, 16 percent are children in female-headed households. This is similar to the County, which has 17 percent of children in female-headed households.

Table 2-5
Family Type and Age of Children
1980-1990

Age	Children in Married Couple Family		Children in Male-Headed Family		Children in Female-Headed Family	
	City	County	City	County	City	County
5 and under	4,067	116,254	207	7,160	653	21,287
6 to 11 years	4,259	107,297	308	6,486	832	23,799
12 to 17 years	3,484	84,054	159	5,480	806	20,780
Total	11,810	307,605	674	19,126	2,291	65,866

Source: 1990 U.S. Census

2.5 HOUSEHOLD CHARACTERISTICS

Although the characteristics of individual members of the population are important for an understanding of the growth and change of a city, the more useful unit for analysis concerning housing needs is the household. The U.S. Census Bureau considers all people living in a dwelling unit as a household, whether or not they are related. People who live in retirement and convalescent homes, dormitories, or other group living situations are not considered households. A dwelling unit is defined as "a house, an apartment, a group of rooms, or a single room, occupied as separate living quarters, or if vacant, intended for occupancy."

The 1990 Census figures indicate there are 22,130 households and 2,665 people in group quarters. According to the 1990 Census, persons per household increased from 2.68 to 2.71 from 1980 to 1990. The ratio of families to households remained about the same, at 0.70, as the number of families increased from 11,440 to 15,532 and the number of households increased from 15,718 to 22,130. The DOF 1990-1999 City/County Population and Housing Estimates reports the number of persons per household increased from 2.7 in 1990 to 2.8 person per household in 1999. This increase is not as large as many other parts of San Bernardino County (where average household size exceeds three persons per household). For a more detailed description of persons per household refer to Section 3 on overcrowding.

Table 2-6 identifies household types in the City of Redlands based on the 1990 Census. Family households represent the largest household group, which is characteristic of a city like Redlands. Table 2-7 provides a break-down of households by type and presence of children under age 18. The number of female-headed households was 1,389, 6 percent of the total households. Non-family households are typically single males or females living alone, or households of more than two with no family relation or children. Of the 1,389 female-headed households, 17 percent are households with children. In comparison, the County has nearly the same percentages for household type and presence of children under age 18. In the last few decades female-headed households have increased, making this a particular group of concern when it comes to housing and affordability.

Table 2-6
Household Type by Relationship

Family Households	
Relationship	Number of People
Head of House	15,532
Spouse	12,419
Born to or Adopted Children	17,509
Step-children	943
Grandchildren	967
Other relatives	1,660
Non-relatives	1,085
Non-Family Households	
Male Head of House living alone	2,017
Male Head of House not living alone	743
Female Head of House living alone	3,312
Female Head of House not living alone	526
Non-relatives	1,583
Group Quarters	
Institutionalized persons	891
Other persons in group quarters	1,207

Source: 1990 U.S. Census

Table 2-7
Household Type and Presence of Children Under Age 18

Household Type	Households with Children	% of Households with Children	% of all Households
Redlands			
Married Couple	6,250	78%	28%
Male-Headed Family Household	426	5%	2%
Female-Headed Family Household	1,389	17%	6%
Total	8,065	100%	36%
San Bernardino County			
Married Couple	153,626	77%	33%
Male-Headed Family Household	11,498	6%	2.5%
Female-Headed Family Household	35,164	17%	7.5%
Total	200,288	100%	43%

Source: 1990 U.S. Census

Large families are defined as households with five or more related persons. As indicated in Table 2-8, about four percent of households in the City had five or more persons in 1990, the overwhelming majority of which were families. These households do not comprise a large segment of the population, and there are an adequate number of housing units with three or more bedrooms to accommodate their needs. As discussed in Section 4, many large families have low or moderate incomes and may not be able to afford housing of sufficient size.

Table 2-8
Large Families

Number of Persons in Household	Owner Occupied	Renter Occupied
5	1,096	484
6	274	239
7+	195	225
Total	1,565	948

Source: 1990 U.S. Census

2.6 EMPLOYMENT

Redlands is not currently a regional employment center. The East Valley's once largest employer, Norton Air Force Base located adjacent to Redlands, closed in March 1994. The 1990 Census showed a labor force of 28,034 persons living in Redlands. Table 2-9 provides an estimate and projection of the number of jobs within the City of Redlands and San Bernardino County based on the 1998 SCAG Regional Transportation Plan Growth Forecast. Between 1990 and 1994 Redlands had a decrease of 6 percent in jobs, caused by the closure of Norton Air Force Base. Between 1994 and 2000 SCAG estimated a job increase in Redlands of 30 percent versus 27 percent for the County. SCAG predicts an average annual increase of 4 percent for jobs from 2000 to 2010.

Table 2-9
Estimated and Projected Jobs

	Redlands Jobs/Percent Change	San Bernardino County Jobs/Percent Change
1990	23,688	466,349
1994	22,258 (-6%)	486,802 (4%)
2000	28,834 (30%)	617,055 (27%)
2005	34,988 (21%)	734,724 (19%)
2010	41,972 (20%)	860,707 (17%)

Source: SCAG Regional Transportation Plan Growth Forecast, 1998

Table 2-10 shows that the majority, 80.4 percent, of Redlands' workers in 1990 held jobs in the management and professional, technical, sales, administrative, and service sectors while 19.6 percent were employed in farming production and labor. The increase in service sector jobs over those in farming, manufacturing, and distribution was identified in the 1980 Census also. This growth in the service sector could have an effect on income and housing need in Redlands, as service jobs tend to be split between lower paying, lower level, and higher paying managerial jobs.

Countywide, population growth is expected to be 26 percent between 2000 and 2010, whereas job growth is expected to be 39 percent. In Redlands, the population growth is expected to be 13 percent, whereas job growth is expected to be 46 percent, according to SCAG Regional Transportation Plan Growth Forecast (1998). Data taken from the 1990 Census indicates a 0.46 labor participation rate for the City of Redlands residents. This means that fewer than half of the City's residents of working age were actively in the labor force. The ratio of persons employed to households indicated that less than 1 person (0.79) per household is employed. Given the relatively low labor participation rate and ratio of jobs per households, there is substantial potential for future Redlands employers to recruit local residents to fill jobs.

Table 2-11 describes the commuting patterns of Redlands residents in 1990, and shows that only 9,403, or 33.2 percent, worked in the City. A total of 14,410 residents (50.7 percent) commuted to jobs elsewhere in the County, but only 16.1 percent worked outside the County. The 1990 Census reports mean travel time for employed residents of Redlands to be 21 minutes.

Based on labor participation rates, commute patterns, and the ratio of persons employed per household, Redlands has a large labor force and available workers to accommodate job growth over the next decade. SCAG projections have a large gap between expected population growth and job growth. It is expected that much of the job growth that occurs in Redlands may relocate the jobs of the currently employed, thus decreasing commute time and allowing for more local employment. The job growth will also stimulate a number of people to enter the job market who are not currently participating.

The preponderance of management, technical, and service jobs and the high number of out-commuters supports the view that the community of Redlands serves as a labor pool for the East Valley. The East Valley Corridor Specific Plan, with its projection of 90,000 or more jobs, will change this situation considerably.

San Bernardino County and the Cities of Redlands and Loma Linda are working to increase local employment opportunities and have adopted the East Valley Corridor Specific Plan to this end. This plan could provide over 90,000 jobs at a prime Interstate-10 Corridor location central to the three jurisdictions. The plan and its possible consequences for employment in the area were considered by SCAG in its calculations for the current RHNA only to the extent of anticipated employment growth through 2005.

Table 2-10
Occupation of Redlands' Employed Residents (1990)

Occupation Group	Persons	Percent
Managerial and Professional	10,401	37.1
Technical, Sales, and Administrative Support	8,747	31.2
Services	3,389	12.1
Farming, Forestry, and Fishing	514	1.8
Precision Production, Craft, and Repair	2,603	9.3
Operators, Fabricators, and Laborers	2,380	8.5
Total	28,034	100.0

Source: 1990 U.S. Census

Table 2-11
Redlands' Employed Residents' Commuting Patterns (1990)

Place of Work	Persons	Percent
Redlands	9,403	33.2
Elsewhere in San Bernardino County	14,410	50.7
Outside San Bernardino County	4,561	16.1
Total	28,374	100.0

Source: 1990 U.S. Census

*Note: the total numbers listed in this table and Table 2-10 differ because the U.S. Census Bureau generates these numbers based on a sample percent of the population. Therefore, these census totals do not represent a 100 percent count of the total population and are subject to slight variation.

2.7 INCOME

To categorize households and determine eligibility for housing programs, both the federal government and state government describe households and families as follows as they relate to a percent of the median income:

- Very low = 50 percent or less;
- Low = 51 to 80 percent;
- Moderate = 81 to 120 percent; and
- Upper income = 120 and over.

Note: Categories are based on the median family income, as determined by the United States Department of Housing and Urban Development (HUD).

As Table 2-12 illustrates, the 1980 Census counted 3,408 (21.7 percent) very low-income households in Redlands, 21.7 percent of the total 15,718, and 7,230 upper-income households, 46.0 percent of the total.

The 1990 median household income for the City of Redlands, based on the median income for San Bernardino County, was \$37,073. The median family income in 1990 was \$43,200. The per capita income was \$17,825. The median household income represents the mid-point in income for all households in the City, whereas the median family income represents the mid-point for households comprising related individuals.

In January 1999, the median countywide income was estimated by HUD at \$47,200 for a family of four. HUD estimated median incomes for the purpose of establishing eligibility guidelines for participation in various federal programs. Income estimates are made on a countywide basis only, not for individual cities.

Table 2-12 shows the percent of City and County residents at various levels of income based on the 1990 median countywide income of \$33,443. The 1990 Census counted 3,859 very low-income households, 19 percent of the total 20,067, and 7,139 upper-income households, 36 percent of the total. The highest percentage of people in Redlands make between \$35,000 to \$74,000 per year and are between the ages of 25 to 44 years of age.

Table 2-12
Households by Income Group in 1990

Income Group	Income Criteria	Redlands	San Bernardino County
Very low	Less than \$16,722	3,859 (20%)	98,611 (24%)
Low	\$16,723 - \$26,754	4,306 (22%)	83,962 (21%)
Moderate	\$26,755 - \$40,132	4,159 (21%)	88,232 (22%)
Above Moderate	\$40,133 and up	7,193 (37%)	134,663 (33%)
Total	--	19,517 (100%)	405,468 (100%)

Source: 1990 U.S. Census

Tables 2-13 and 2-14 show the income spread above and below poverty level. No particular age group of concern stands out as below poverty level as indicated in Table 2-14. Table 2-15 shows the number of families/householders that are below poverty level between married couples, male-headed, and female-headed householders. The table indicates there are a significant number of female-headed householders, nearly as many as there are married couples, below poverty level.

Table 2-13
Income in 1990 above Poverty Level

	Redlands	Percent of Total	San Bernardino County	Percent of Total
Under 5 years	3,861	7	108,636	9
5 years	840	2	20,799	2
6 to 11 years	4,880	9	120,636	10
12 to 17 years	4,175	8	102,268	9
18 to 24 years	4,599	9	115,366	10
25 to 34 years	9,349	18	234,084	19
35 to 44 years	8,980	17	190,143	16
45 to 54 years	6,148	12	116,484	10
55 to 59 years	1,978	4	42,618	4
60 to 64 years	2,119	4	42,595	4
65 to 74 years	3,625	7	69,944	6
75 years and over	2,451	5	39,185	3
Total	53,005	100	1,202,758	100

Source: 1990 U.S. Census

Table 2-14
Income in 1990 below Poverty Level

	Redlands	Percent of Total	San Bernardino County	Percent of Total
Under 5 years	681	13	25,571	15
5 years	106	2	4,989	3
6 to 11 years	827	16	26,192	15
12 to 17 years	634	12	20,016	11
18 to 24 years	722	14	23,268	13
25 to 34 years	796	15	31,637	18
35 to 44 years	519	10	17,374	10
45 to 54 years	309	6	8,741	5
55 to 59 years	159	3	3,451	2
60 to 64 years	145	3	3,775	2
65 to 74 years	151	3	5,057	3
75 years and over	183	3	4,656	3
Total	5,232	100	174,727	100

Source: 1990 U.S. Census

Table 2-15
Income in 1989 below Poverty Level by Household

	Family/ Householder	Percent of Population
Married couple family: With related children under 18 years		
Total	493	0.7%
Other family: Male householder, no wife present: With related children under 18 years		
Total	80	0.1%
Female householder, no husband present: With related children under 18 years		
Total	428	0.6%
Source: 1990 U.S. Census		

3.0 HOUSING STOCK

3.1 GENERAL HOUSING TRENDS

Redlands' housing stock includes a wide variety of ages, styles, types, lot sizes, densities, and prices. As a City well-established by the late 19th century, Redlands has never been engulfed by the large subdivisions of tract housing that typify many California suburbs. The 10- to 40-acre parcels originally created for orange groves were too small to be efficiently developed by high-volume builders. Most single-family home projects in Redlands had fewer than 50 units. Table 3-1 shows that growth has been steady yet moderate since the 1950s, averaging 370 to 450 dwelling units per year. Growth accelerated during the 1980s, however, when nearly 30 percent of the current housing stock was constructed. This trend was similar for all types of housing, including apartments and townhomes.

Overall, the average annual number of units constructed between 1980 and 1989 was 733 per year. The average annual rate of homebuilding declined dramatically during the 1990s, to only 144 units per year, (most having been constructed in the early part of the decade). This is the lowest rate of residential construction since the 1940s and well below the number of dwelling units allowed under the City's growth management program (even as amended in 1987).

Table 3-1
Redlands Age of Housing Stock in 1990

Year Built	Units	Average Annual Additions	Percent of Stock
Before 1940	2,651		11
1940-1949	1,280	128	5
1950-1959	3,708	370	15
1960-1969	3,669	370	15
1970-1979	4,544	454	19
1980-1988	6,668	740	27
1989- March 1990	669	535	3
1990-1999	1,502	206	6
Total	24,618		100.0

Sources: 1990 U.S. Census; DOF 1990-1999, and City of Redlands, 2000.

In 1987, Measure N (a zoning ordinance) amended the City's 1978 growth management ordinance (Proposition R). This measure reduced to 400 the number of units that can be constructed in any one year (with some exceptions). Between 1980 and 1989 a total of 7,337 residential units, including single-family, multi-family, and mobile homes were constructed or placed. Comparatively, only 1,440 units were constructed between 1990 and 1999. The number of multi-family units (272) constructed from 1990 through 1999 represents just 18 percent of all units constructed.

Nearly five times as many residential units were built between 1980 and 1989 as were built between 1990 and 1999. During the 1990-1999 period, 1,199 (80 percent) of the units constructed were single-family detached homes. A more dramatic drop in the construction of new multi-family units occurred during the

1990s—only 272 units were constructed (18 percent). The larger decrease in multi-family additions can be attributed to a number of factors including greater affordability of new single-family homes during the 1990s (more entry- and mid-level homes, lower interest rates), lower demand for multi-family units, less private financing for apartments, and fewer public subsidies for low-income apartments.

The rate of new mobile home placements also declined during the 1990s. New placements represented just two percent (25 units) of the mobile homes that existed in 1990.

The City's residential permit listings for the past three years show a continued decrease in the number of permits for residential building construction compared to the 1980s, even with an improvement in the local economy. The number of single-family home permits increased significantly between 1997 (32 units) and 1998 (135 units), while permits for multi-family units has continued to decline. A total of 1,490 permits were issued in 1986, of which 607 were for single-family dwellings, 10 were for mobile homes, and 873 were for multi-family dwelling units. Comparatively, there were only 45 permits issued in 1996, none of which were for multi-family dwellings, and only two of which were for mobile homes. As of December 1999, 207 permits have been issued for the year: 144 for single-family dwellings, one for a mobile home unit, and one for a multi-family complex of 62 units.

According to the 1995 Housing Element, the moderate growth trend in the East Valley was expected to continue with housing units increasing at a 2.8 percent annual average rate, from 174,500 in 1988 to 323,400 in 2010 (SCAG Growth Management Forecast 1989). The SCAG Regional Comprehensive Plan, approved in September 1994, projected that Redlands would accommodate 30,460 households by the year 2010. Accounting for a vacancy factor, this would translate into approximately 31,060 dwelling units for Redlands.

SCAG's 1999 forecast reduced the household projection for 2010 to 28,267. By 2005, SCAG predicts there will be a total of 25,162 households, an increase of 1,875 households from 1998, or a growth rate of 1 percent annually. With dwelling unit losses and vacancy adjustments, SCAG predicts Redlands will have a construction need for 1,931 new dwelling units by 2005, 901 of which should be above moderate-income housing units.

3.2 TRENDS BY HOUSING TYPE

In 1980, 74 percent of all units in Redlands were single-family attached and detached units. However, as in most California cities, the multi-family share rose during the 1980s in response to an increase in the share of one- and two-person households, favorable apartment financing, and the inability of a larger share of the households to afford single-family homes. In Redlands, an additional factor was a one-time exemption during 1984-85 of multi-family units from the 400-per-year limitation of Proposition R. Over 2,300 multi-family units (more than 10 percent of all units) were built between 1983 and 1987. During this time period, the share of new single-family homes dropped from its customary level of between 80 and 85 percent to 68 percent.

Tables 3-2 and 3-3 list housing unit additions and totals by type from 1980 to 1994, as reported by the DOF and Redlands building permit data. Approximately 1,440 new units were added between 1990 and January 1999, as shown on Table 3-2. Most of these units (1,199) were single-family detached units. Throughout this period, the overall vacancy rate remained steady at 5.2 percent. However, the average number of persons per household increased slightly, from 2.7 to 2.8. The County also averaged about three people per household.

The countywide vacancy rate was approximately 14 percent during this same period. The distribution of housing among the various types remained steady between 1990 and 1999. About two-thirds of dwelling units countywide (67 percent) were single-family detached houses, 4 percent were single-family attached homes, 7 percent were multiple-family dwellings of two to four units, 14 percent were multi-family dwellings of five or more units, and 8 percent were mobile homes.

Table 3-2
Redlands Housing Estimate 1990-1999

Year	Total	Single Units		Multiple Units		Mobile Homes	Occupied	Percent Vacant	Persons Per Household
		Detached	Attached	2 to 4	5 Plus				
1990	23,190	14,373	1,032	2,392	4,528	865	21,986	5.2	2.7
1991	24,228	15,222	1,038	2,400	4,692	876	22,970	5.2	2.7
1992	24,379	15,329	1,038	2,422	4,708	882	23,119	5.2	2.7
1993	24,419	15,369	1,038	2,422	4,708	882	23,157	5.2	2.7
1994	24,451	15,399	1,038	2,422	4,708	884	23,187	5.2	2.7
1995	24,478	15,422	1,038	2,422	4,708	888	23,213	5.2	2.7
1996	24,488	15,432	1,038	2,422	4,708	888	23,222	5.2	2.7
1997	24,503	15,447	1,038	2,422	4,708	888	23,236	5.2	2.7
1998	24,557	15,501	1,038	2,422	4,708	888	23,287	5.2	2.8
1999	24,630	15,572	1,038	2,422	4,708	890	23,356	5.2	2.8

Source: DOF, 1990-1999 City/County Population and Housing Estimates

Note: The 4,708 multiple units of five plus for 1999 do not include the 62 units at the Fern Lodge Senior Apartments. The Department of Finance estimates were prepared as of January 1, 1999, prior to the construction of Fern Lodge. Therefore the number of five plus multiple units in 2000 is 4,770.

As shown in Table 3-2, during the period 1995 through 1999, the only development activity was single family development except for one apartment project. In 1995, the City added a total of 27 dwelling units, four (4) of which were mobile homes. In 1996, the increase was only ten (10) single family units. In 1997, the City added fifteen (15) single family units. In 1998, fifty-four (54) single family dwellings were added. In 1999, a total of one hundred thirty-five (135) new residential units were added. These consisted of seventy-one (71) single family units, two (2) mobile homes and sixty-two (62) apartments.

Analysis of the City's housing stock shows a similar mix: most units were single-family detached (63 percent), followed by multi-family dwellings of five or more (19 percent), multi-family dwellings of two to four (10 percent), and an equal percentage of single-family attached and mobile homes (4 percent each). Overall, multi-family dwelling units in Redlands represented a higher percentage of the housing stock than countywide (29 percent in the City versus 21 percent countywide).

Changes in the City's housing stock are due primarily to new construction, not demolitions or conversions. City permit listings show demolition requests for 24 dwellings between 1995 and 1999. Of the 24 permits issued, 12 were demolished and finalized, five are currently active, and seven permits expired with no action taken.

Table 3-3
1990 to 1999 Housing Estimates for the County of San Bernardino

Year	Total	Single Units		Multiple Units		Mobile	Occupied	Percent	Persons Per
		Detached	Attached	2 to 4	5 Plus	Homes		Vacant	Household
1990	542,332	361,598	22,284	38,591	76,877	42,982	464,737	14.3	3.0
1991	555,074	370,838	22,482	38,873	79,304	43,577	476,554	14.2	3.0
1992	563,795	377,698	22,493	38,945	80,696	43,933	483,673	14.2	3.1
1993	571,906	384,545	22,565	39,162	81,416	44,218	488,809	14.5	3.1
1994	579,031	389,975	22,619	40,108	81,909	44,420	494,754	14.6	3.1
1995	584,493	395,112	22,408	40,153	82,315	44,505	499,461	14.6	3.1
1996	588,571	398,753	22,628	40,235	82,379	44,576	502,864	14.6	3.1
1997	592,631	402,846	22,628	40,133	82,439	44,585	506,155	14.6	3.1
1998	598,234	407,779	22,947	40,265	82,637	44,606	510,946	14.6	3.1
1999	604,060	412,982	22,947	40,301	83,030	44,800	515,945	14.6	3.1

Source: DOF, 1990-1999 City/County Population and Housing Estimates

3.3 TENURE AND VACANCY

Table 3-4 describes tenure and type of housing in Redlands according to the 1990 Census. The overall tenure pattern in the City was 56.3 percent owner-occupied, 38.6 percent renter-occupied, and 5.2 percent vacant. Of the occupied units in the City, 59 percent were owner-occupied and 41 percent were rentals. By comparison, 63 percent of housing units countywide in 1990 were owner-occupied (294,365 units) and 37 percent were renter-occupied (170,372 units).

In Redlands, there were 15,264 detached and attached single-family units, and 11,905 of these (78 percent of all single-family units) were owner-occupied. (Note: it is customary for the owner occupancy to be much higher among single-family homes than multi-family units, which are primarily rentals.) The vacancy rate was 3.5 percent, which is above the 2 percent vacancy rate considered by SCAG to be the minimum needed for the single-family housing market. Duplexes, triplexes, and quadraplexes comprised 2,419 (10.5 percent) of the total units, of which 35.1 percent were multi-family dwellings of five or more units. Dwellings in buildings with five or more units dominated the multi-family share, accounting for 64.9 percent. The multi-family vacancy rate was 8.7 percent, again above the minimum rate considered by SCAG to be necessary for the rental housing market (5 percent).

Table 3-4
Characteristics of Redlands Housing Stock (1990)

Type and Tenure	City
Single-Family Detached	14,372
Owner-Occupied	11,462
Renter-Occupied	2,433
Vacant	477
Single-Family Attached	2,008
Owner-Occupied	529
Renter-Occupied	447
Vacant	56
Duplex	505
Owner-Occupied	29
Renter-Occupied	430
Vacant	46
3 to 4 Units	1,887
Owner-Occupied	66
Renter-Occupied	1,708
Vacant	113
5+ Units	4,385
Owner-Occupied	146
Renter-Occupied	3,800
Vacant	439
Mobile Homes	865
Owner-Occupied	743
Renter-Occupied	64
Vacant	58
Other	143
Owner-Occupied	49
Renter-Occupied	79
Vacant	15
Total	23,189
Owner-Occupied	13,024
Renter-Occupied	8,961
Vacant	1,204

Source: 1990 U.S. Census

An analysis of the 1990 Census data for Redlands on Table 3-5 shows that the majority of both renter- and owner-occupied units (79 and 88 percent respectively) were occupied by Whites. Blacks rented 444 units, but owned only 264. Native Americans also rented more units than owned, with 129 rented and 32 owned units. Likewise, "Other" races rented more units than owned (991 units [11 percent] to 851 units [7 percent])

respectively). Like Whites, Asian/Pacific Islanders owned more units than rented, but only accounted for 4 percent of all owners and 3 percent of all renters. Similarly in the County, a higher percentage of Whites owned than rented units, while a higher percentage of Blacks and Others rented than owned. An equal percentage of Native Americans and Asian/Pacific Islanders rented as owned.

Table 3-5
Tenure by Race in 1990

Race	City	Percent	County	Percent
Owner-Occupied Units				
White	11,400	88%	243,897	83%
Black	264	2%	14,070	5%
Native American	32	<1%	2,669	1%
Asian/Pacific Islander	477	4%	9,387	3%
Others	851	7%	24,342	8%
Renter-Occupied Units				
White	7,114	79%	121,032	71%
Black	444	5%	19,780	12%
Native American	129	1%	2,165	1%
Asian/Pacific Islander	283	3%	5,345	3%
Others	991	11%	22,050	13%

Source: 1990 U.S. Census

Analysis of tenure by age in Redlands reveals that the highest percentage of owner-occupied units were owned by people between the ages of 35 and 44, while the highest percentage of units were rented by people between the ages of 25 and 34. People age 45 and over owned nearly three times as many units as rented. Table 3-6 compares the number of owner-occupied and renter-occupied units in the City of Redlands and San Bernardino County. There were similar ownership and renter trends in the City and County, even though percentages varied. One important difference to note is that there was an equal percentage of renter and owner units occupied by people age 75 and older. Although the owner percentage for people in this age group was similar to the County, there was a higher percentage of elderly people that rented in Redlands than in the County. Therefore, the demand for senior rental units in Redlands is likely to be higher than the County as a whole.

Table 3-6
1990 Tenure by Age of Householder

Age	City	Percent	County	Percent
Owner-Occupied Units				
15 to 24	112	1%	4,333	1%
25 to 34	1,787	14%	56,453	19%
35 to 44	3,511	27%	74,501	25%
45 to 54	2,659	20%	52,021	18%
55 to 64	1,942	15%	44,220	15%
65 to 74	1,924	15%	39,248	13%
75 and over	1,089	8%	23,589	8%
Renter-Occupied Units				
15 to 24	1,126	13%	14,886	15%
25 to 34	3,018	34%	63,066	37%
35 to 44	2,133	24%	37,488	22%
45 to 54	1,068	12%	17,465	10%
55 to 64	502	6%	11,008	6%
65 to 74	419	5%	9,403	6%
75 and over	695	8%	7,056	4%

Source: 1990 U.S. Census.

3.4 AGE AND CONDITION OF HOUSING STOCK

According to the 1990 Census, approximately one-third of the housing stock in Redlands was built before 1970 and is more than 30 years old. About 10 percent of the City's housing stock was built before 1940 and contains many historic homes. Although the large proportion of older homes may indicate potential housing condition problems, very few units have been so severely deteriorated as to be condemned (only 14 units in 1990 according to the 1990 Census).

Deferred maintenance such as old paint, roof sheathing that has outlasted its useful life, localized wood rot, and similar concerns do not typically result in units being boarded up, although such conditions do contribute to neighborhood deterioration. The 1985 Housing Element noted that, based on the 1980 Census, San Bernardino County's Housing Assistance Plan estimates, and a windshield survey of 826 units in the City in 1984, only 4.8 percent needed repair or complete replacement. These homes tended to be in the northern part of the City. The number of homes in need of rehabilitation appears to be increasing. There were 603 open cases with 16 substandard units in 1998, compared to 1,060 open cases with 97 substandard units in 1999.

According to the City's Building and Safety Division, many of the older homes in Redlands are in better condition than would be predicted based on age alone, partly because of interest by owners in fixing up historic homes. Houses are generally in good enough condition that the City does not think it necessary to

conduct a systematic inspection program for existing homes. Most of the historic homes are in the south area and at least 98 percent are considered in good condition by the City. Most repair work would be needed in the north area as proposed in the Neighborhood Initiative Program. Review of residences in the north area reveal a number of units in need of either light repair, such as painting, re-roofing, and landscaping, or major reconstruction. A 1998 survey of homes on Herald Street, Alta Street, 6th Street, and Tribune Street revealed that nearly 100 dwelling units were in need of some type of repair and at least two units should be demolished. Since April 1998, 21 units and entire streets have undergone community service clean-up to help maintain neighborhoods and bring units up to code. Expenditures on these clean-ups totaled \$9,380 between April 1998 and November 1999.

The City operates a repair grant program using Community Development Block Grant (CDBG) funds for low-income residents and senior citizens. Housing Preservation Programs under the City's Neighborhood Initiative Program include the Great Neighborhoods Program, Senior Home Repair Program, First Time Home Buyer Program, Multi-unit Rehabilitation Program, Developer Assistance Program, and Mobile Home Rehabilitation Program. All of these programs are funded through Redevelopment set-aside funds. Approximately \$600,000 are annually available through set-aside funds.

Adequate utilities within a housing unit are another measure of a housing unit's ability to provide people with decent housing. The 1990 Census data show that the majority of housing units were connected to a public or private company water system (23,128), while 52 units had a drilled well, and nine units received water from another source. Most housing units were connected to the public sewer (21,992). However, 1,197 units were connected to a septic tank or cesspool. Heating fuel for occupied housing units ranged from gas and electricity to wood and solar energy. Of the occupied housing units in the City, 19,342 had utility gas, 161 had tank gas, 2,267 had electricity, eight used fuel oil or kerosene, 94 were fueled by wood, 36 used solar energy, and 77 units had no heating fuel.

Housing units can also offer a variety of features, or can be inadequate in terms of size and amenities. The majority of housing units in Redlands had complete kitchen facilities (23,107), although at least 82 units did not. A slightly higher number of units (23,168) had complete plumbing facilities while 21 units had incomplete plumbing facilities. Of the units that lacked complete plumbing facilities, all were occupied by Whites. Seven of the 13 occupied housing units built before 1940 lacked complete plumbing facilities. All of the occupied units that lacked complete plumbing had householders between the ages of 15 and 64, while no units lacking complete plumbing facilities were occupied by the elderly age 65 and older. Occupied units lacking complete plumbing comprised less than one percent of all occupied units. Therefore, an overwhelming majority of homes in Redlands are fairly new and do not lack critical features such as plumbing. However, basic maintenance, such as roof repair, new paint, and cleanliness will need to be continuously encouraged, particularly as the majority of housing units are beyond 30 years.

The number of bedrooms within a housing unit can also characterize the housing stock in a community, as shown in Table 3-7. Studios and one- and two-bedroom units had the highest percentage of vacancy per total units of their type. However, two- and three-bedroom units represented the majority of housing types in the City, which suggests that smaller units were less desirable and that three-bedroom units are of high demand and likely quality, whereas two-bedroom units, although available, are less desirable due to size or condition.

Because the overwhelming majority of housing units have complete plumbing and kitchen facilities, and are served by utilities, it is unlikely that housing conditions represent a problem that requires government action.

Table 3-7
Number of Bedrooms per Housing Unit

Number of Bedrooms	Total Housing Units	Vacant Housing Units
Studio	345	32
One bedroom	2,663	189
Two bedrooms	7,421	548
Three bedrooms	7,329	283
Four bedrooms	4,796	120
Five or more bedrooms	635	32

Source: 1990 U.S. Census.

3.5 HOUSING COST

3.5.1 Ownership Housing

According to the California Association of Realtors, the median sale price of previously owned homes in Redlands as of October 1999 was \$149,500, an increase of 10.7 percent from the median price of \$135,000 in September 1999 (housing prices can fluctuate significantly from month to month). This represents an increase of 6.8 percent over the past year.

According to a title search of residential sales in Redlands, as shown in Table 3-8, the average resale price for homes sold between 1998 and 1999 was \$365,139, based on 149 sales. It should be noted that the average price range was taken from the San Bernardino County Sun's current listing of homes for sale in Redlands. Since there were only 149 listings of homes on the market, and no listings of homes sold within the year were available, the average price range may not be an accurate representation of sale prices in the City. Median prices for houses ranged from \$123,000 to \$399,000, depending on the number of bedrooms. Average prices range from \$118,000 for a two-bedroom house to \$225,000 for a three-bedroom house, and from \$419,000 for a four-bedroom house to \$466,000 for a five-bedroom house. Local realtors report that resale prices are usually 5 to 10 percent higher in the West Valley than the East.

Table 3-8
1998-1999 Resale Home Prices in Redlands

Bedrooms	Homes for Sale	Median	Average	Range	% of Total
1	2	\$117,498	\$117,498	\$64,995-\$170,000	1%
2	13	\$123,000	\$118,258	\$45,000-\$174,900	9%
3	34	\$154,900	\$225,194	\$84,900-\$830,001	23%
4	57	\$255,000	\$418,924	\$79,999-\$875,000	38%
5	36	\$399,000	\$465,597	\$119,900-\$899,000	24%
6	5	\$670,000	\$641,600	\$320,000-\$860,000	3%
7	2	\$564,250	\$564,250	\$479,000-\$649,500	1%
Total	149	--	--	--	99%

Source: San Bernardino County Sun, December 1999

Note: The total does not equal 100 percent due to rounding of percentages.

Table 3-9 describes five of the City's newest housing developments with three-, four-, and five-bedroom single-family homes available starting at about \$156,990. These homes are fairly large and offer a number of choices related to property size, home size, garage size, bedrooms, and bathrooms, among other amenities. While some developments were rather expensive compared to median resale home prices, there are new homes available that are just above the median resale price because they are new and also larger in size or number of rooms. These developments, combined with four other developments in the process of construction will create 282 single-family housing units in the City. Five additional developments have either been approved or are scheduled for approval review. These developments would result in 264 additional single-family housing units. If all developments are approved and built, a total of 546 new single-family housing units will be available.

Table 3-9
Redlands Representative Single-Family Home Developments
1999

Project Name/Location/ Developer	Unit Size	Lot Size (Square Feet)	Number of Units	Price
Cordillera Sunset Hills Classic Pacific	4-5 bedrooms 3-4.5 baths 3,359 - 4,408 sf	39,204 sf to 479,160 sf	40	\$450,000 - \$750,000
Chanteclair Patricia Drive Osborne Development	3-4 bedrooms 2-3 baths 2,240 - 3,030 sf	10,000 sf	58	\$275,000 - \$350,000
Orange Blossom Mendocino Way Jeffrey Homes	4 bedrooms 2-3 baths 1,743 - 2,342 sf	8,000 sf	36	\$187,990 - \$221,990
Orchard Run Yeoman Associates	4 bedrooms 2 baths 1,554 - 1,669 sf	8,400 sf	27	\$156,990 - \$162,990
Morning Dove Morning Dove Lane Gardner Construction	3-4 bedrooms 2 baths 1,774 - 2,446 sf	18,000 to 20,000 sf (Condominiums)	18	\$169,000 - \$199,000

Source: City of Redlands, 1999

Table 3-10 compares new home prices in the County to other counties in the region. According to the table, new home prices in San Bernardino County were the least expensive.

Table 3-10
1999 Comparative New Home Prices (Averages)

County	Average Price
San Diego	\$260,000
Ventura	\$347,000
Orange	\$318,000
Los Angeles	\$266,000
Riverside	\$195,500
San Bernardino	\$177,000

Source: Inland Empire Quarterly Report, October 1999

3.5.2 Rental Housing

Since the median family income in 1999 was \$47,200, residents at this income level would be able to spend \$14,160 a year or \$1,180 per month on housing. Very low-income households would be able to afford a monthly rent up to \$590, while low-income households could afford housing payments up to \$944 per month.

and those with moderate incomes could afford up to \$1,416 per month in housing payments. Few two-bedroom rental units are available at rates affordable to very low-income individuals or families, but most one-bedroom units are affordable. For example, a person with a very low-income of \$15,000 could spend up to \$375 a month on a one-bedroom apartment, which is approximately 30 percent of their income. Those at the upper end of the low-income category and households in the moderate-income category could afford nearly all of the rental apartments in the City.

A random survey of 10 apartment complexes containing 932 rental units was conducted in 1999. The survey results shown in Table 3-11 reveal that studio and one-bedroom units range between \$425 to \$665 per month, two-bedroom units range between \$500 to \$725 per month, and three-bedroom units range between \$650 to \$925 per month. A review of 33 apartment complexes listed in local classifieds revealed that 1999 studio rents range from \$250 to \$630 per month, one-bedroom units range from \$440 to \$705 per month, two-bedroom units range from \$515 to \$825 per month, and three-bedroom units range from \$620 to \$895 per month. Discussion with the apartment complex managers revealed that only one unit was available for rent at the time and that, on average, rental units in the City are not widely available. This low vacancy rate for rental units is in contrast with the 7 percent vacancy rate in 1994. There are also single-family homes and condominiums/townhouses for rent in the City. Most range from \$575 to \$900 for two-bedroom dwellings and \$800 to \$1,200 for three-bedroom dwellings. Although there are currently no rooms for rent, two hotels in Redlands have listings for daily or weekly rents. The Budget Inn offers a room for \$25 per day, while another hotel in the City offers a weekly rate of \$102 for two people.

Table 3-11
1999 Rental Rates

Apartment Complex	1-bedroom Rates	2-bedroom Rates	3-bedroom Rates	Townhouse Rates	Total Units
Brookside Park	\$655-\$665	\$725	\$925	\$850-\$935	160
Citrus Grove	\$585	\$650-\$675	--	--	198
Countrywood	\$560	\$640-\$680	\$865	--	161
Del Flora	\$545	\$665	--	--	152
Lido Palms	\$425	\$500	\$650	\$525-\$650	52
Los Arboles	\$540	\$640-\$675	\$825	\$650	87
Orleane	\$505	\$650	\$750	--	19
Orangewood	\$550	\$615-\$655	--	--	7
Palm Village	\$600	\$675	--	--	50
Palmbrook/Casa De Villa	\$440-\$500	\$585-\$625	--	--	46

3.5.3 Mobile Home Rentals

There are seven mobile home parks in the City. Mobile home parks comprise approximately 4 percent of all housing units in the City. Three mobile home parks contain over half (492 units) of the mobile units in the City. These mobile home parks are Orange Grove Mobile Estates (209 units), Sylvan Mobile Estates (118 units), and Lugonia Fountains Mobile Home Estates (165 units). Space rentals range from \$193 to \$325 per month at Sylvan Mobile Estates, \$276 to \$439 per month at Orange Grove Mobile Estates, and \$310 to \$425 per month at Lugonia Fountains Mobile Home Estates depending on the type of space rented.

3.6 EXISTING BELOW-MARKET-RATE HOUSING STOCK

Assisted housing projects in the City can alleviate the financial hardships low-income households may face. Assisted housing projects are those that offer financial aid or provide extra services for people in need of financial or basic living assistance. There are a variety of programs, each focusing on a specific need or with a specific goal to eliminate unmet housing needs in the community.

3.6.1 Public Housing

The San Bernardino County Housing Authority operates 233 units of conventional public housing in Redlands. All units are rented to households with an income of 50 percent or less than the median for the Riverside-San Bernardino Standard Metropolitan Statistical Area (SMSA). Most units are multiple units although eight units are single-family homes. Sizes range from one to five bedrooms. There are 20 units set aside for the disabled and 25 units for the elderly.

As of January 2000, public housing units were 98 percent occupied. The wait for a unit in Redlands can last between six months and one year, and is normally longer for four and five-bedroom units. However, the waiting period fluctuates subject to current economic conditions, the amount of new public housing available in the area, and other factors. Applicants in 1999 included 626 for one-bedroom units, 812 for two, 650 for three, 198 for four, and 55 for a five-bedroom unit. According to the Housing Authority, the small number of applicants for five-bedroom units is probably not a result of a lack of need, but of people not applying due to the extensive waiting period. The Housing Authority currently has no plans for additional projects in Redlands.

3.6.2 Section 8 Certificates and Vouchers

In addition to operating public housing, the Housing Authority administers the HUD Section 8 Certificate and Voucher programs. In Redlands, 136 units are leased through Section 8 certificates or vouchers. Complexes under this program are Casa de la Vista (74 units), Citrus Arms (60), and Redlands Park Apartments (2). Redlands Park Apartments also offers 156 senior units. Citrus Arms' contract with HUD is due to expire in April of 2000 as it is on a year-to-year contract basis. Although Redlands Park Apartments' contract expired in 1997, HUD still finances them for low-income rental units. The Acquisition Financing Program available through the California Housing Finance Agency provides loans to non-profits, public agencies, and for-profits who have projects at risk of loss of subsidy support. The Section 8 Certificate Program pays the difference in rent between 30 percent of a household's income and fair-market rent for the unit. Since the 2000 rates are not available, 1999 fair-market rents for the certificate program are as follows:

Studio	\$439
One bedroom	\$489
Two bedroom	\$597
Three bedroom	\$829
Four bedroom	\$980

The above rents assume the owner pays utilities. If not, the rent ceiling would be reduced by \$34 to \$74, depending on the size of the unit. Rates for one-, two-, and three-bedroom units have decreased since 1995 while the rate for four-bedroom units has increased.

The voucher program operates under similar rules, except a low-income family may rent a unit at a higher rent than the fair-market rent. The renter must then pay the difference between the fair-market rent and the actual rent.

If a certificate or voucher is available, a family should not have difficulty finding a one- or two-bedroom unit within these rent levels in Redlands according to the rent-level survey. Although there are three-bedroom units that rent for the fair-market rent or less, there are fewer of these units available. There were no four-bedroom units in the 11 apartment complexes surveyed by the City. A large family requiring four bedrooms would probably have to rent a single-family home. Likewise, the availability of any rental units is scarce in the City. Therefore, although rental rates may be reasonable for lower-income households, such units simply may not be available for rent.

3.6.3 Other Programs

The City of Redlands has pursued several programs for constructing housing units affordable to low- and very low-income households. These include the granting of density bonuses and the issuing of Mortgage Revenue Bonds (MRBs). Since 1981, 153 density bonus units have been built, with 75 affordable to very low-income households and the rest to low- and moderate-income households. The MRB program produced 273 units affordable to very low- to moderate-income households from 1981 to 1984, and an additional 268 units from 1985 to 1995. In 1995, the City used MRB funding for four apartment complexes which included more than 250 very low-income units. However, no units have been funded through the MRB program in the last five years.

Additionally, the City pursued and obtained federal Section 202 funding through the Developer's Assistance Category to purchase land and assist in improvements and fees for a 75-unit low-income senior apartment project managed by American Baptist Homes of the West. This project, Casa de la Vista, opened its doors in November 1990 and currently has a 100-percent occupancy rate for its 74 units. American Baptist Homes prepared an expansion to the project which added additional low-income senior apartments. The City approved funds for purchase of adjacent property in order to construct this expansion. Funds were distributed in March 1995 and escrow closed immediately thereafter. This project, known as Fern Lodge, was funded through HUD and the City's set-aside funds. Fern Lodge was completed in 2000 and is now occupied.

There are seven new senior housing projects that have been approved or are undergoing the approval process by the City of Redlands. These new facilities offer assisted living, independent apartments and cottages, and Alzheimer's care facilities. If all of the seven senior housing projects are constructed, there will be a total capacity for 961 additional senior residents.

The City has not yet used the HUD's HOME Investment Partnership Program funds, which may be used for rehabilitation, site acquisition of land or structures, tenant-based rental assistance, or new construction, but has worked with the County to obtain these funds for assisted housing projects.

The City of Redlands was allocated \$410,880 in CDBG funding for the 1999-2000 fiscal year, and these funds were distributed in July 1999. The City received 62 proposals requesting funds totaling \$1,163,472. There is a 15 percent funding limit for public service activities, and the maximum funds that may be allocated to public service projects is \$61,632. The City Council allocated \$82,632 to public service agencies and organizations including the Redlands Police Department, Recreation Bureau, the County Sexual Assault Program, United Way, the Boys and Girls Club, and many others. The City Council also allocated \$283,160 towards construction acquisition projects proposed by the City Police Department, Recreation Bureau, Camp

Edwards, YMCA of Redlands, and the Y Alliance-Building Renovation. Approximately \$41,088 was allocated for administrative costs and \$4,000 was left for the Contingency Fund.

3.7 AFFORDABILITY

There are four income categories typically used for comparative purposes based on the median income, which represents the mid-point at which half of all households earn more and half earn less. Very low-income households earn 50 percent or less of the median area income, while low-income households earn between 50 percent and 80 percent of the area median income. Moderate-income households earn between 80 percent and 120 percent of the area median income, and above moderate-income households earn above 120 percent of the median income. In analyzing housing affordability, a percentage of each of these income categories is taken to reveal housing affordability levels per income category.

A standard measure of housing affordability is that housing expenses should not exceed 30 percent of a household's income, on the average. Those who pay 30 percent or more of their income on housing may experience difficulty in affording other basic necessities. However, to truly evaluate housing affordability, individual circumstances and factors must be taken into account. These circumstances and other factors include other long-term debt, mortgage interest rates, the number of children in a household, and other large, ongoing expenses (such as medical bills). Since it is impossible to take each household's individual circumstances into account, the 30 percent rule-of-thumb provides a general measure of housing affordability for the average household. Table 3-12 shows the number of households paying over 30 percent of their income on housing in 1990. Some households choose to pay over 30 percent of their income for various reasons, such as location, aesthetics, or other features. Other households choose to pay larger percentages of their income on housing because they may receive tax advantages or are investing with the knowledge that their income will increase so that they pay a lower percentage of their income on a long-term basis. In contrast, some households are forced to pay a larger percentage of their income either because they cannot afford anything less, or they are limited to certain costs due to a lack of available low-cost housing options.

Table 3-12
Number of Households Paying Over 30 Percent of Income on Housing

Income	Owners	Renters	Total
Very low-income	637	2,623	3,260
Low-income	785	900	1,685
Total	1,422	3,523	4,945

Source: 1990 U.S. Census

Note: 1990 U.S. Census data uses income ranges that do not correspond exactly to the income categories. The numbers in table 3-12 were derived through interpolating the Census data.

Further analysis of housing expenditures as a percent of income shows that most owners pay 0 to 24 percent of their income on housing (Table 3-13). Renters with income below \$20,000 tend to pay a higher percentage of their income on housing. However, renters with incomes above \$20,000 usually paid less than 25 percent of their income on housing. The majority of people in the \$50,000 or more income level paid 0 to 24 percent of their income on housing whether they rented or owned.

Table 3-13
Housing Expenditures per Income Group

Income	Less than \$10,000	\$10,000- \$19,999	\$20,000- \$34,999	\$35,000- \$49,999	\$50,000 or more	Total
Renters						
0-24%	1%	1%	13%	14%	15%	44%
25-29%	<1%	1%	8%	2%	1%	12%
30-34%	1%	3%	6%	1%	1%	12%
35%+	10%	16%	4%	<1%	0%	30%
Total	12%	21%	31%	17%	17%	98%*
Owners						
0-24%	1%	5%	10%	10%	34%	60%
25-29%	<1%	<1%	2%	3%	7%	13%
30-34%	1%	<1%	2%	3%	4%	10%
35%+	2%	3%	5%	4%	3%	17%
Total	4%	9%	19%	20%	48%	100%

Source: 1990 U.S. Census

*Note: Not all households were computed; therefore, totals do not equal 100 percent of all households.

Table 3-14 shows the median gross rent in relation to income in 1990 as such data is not available for 1999. According to the 1990 Census, the median gross rent was \$588 in the City and \$556 in San Bernardino County. People with very low incomes had few affordable options, as only 13 percent of all apartment units in the City had rents below 30 percent of their income. People with low incomes had more options than those with very low incomes, and could easily afford the median rent. The rents were primarily within the range of people with low incomes. Those with moderate incomes had the most options, as at least 92 percent of the units in the City and 91 percent of the units in the County were within an affordable range. However, approximately 20 percent of the City's population fell into the very low-income category in 1990, and therefore, it is necessary to increase the number of units affordable to very low-income groups. It is important to note that the percentage of apartments affordable within the low- and moderate-income groups is cumulative and include the percentage from the previous income group.

Table 3-14
Median Rent in Relation to Median Income

Income Group	Affordable Rent Limit	% of City Apartments	% of County Apartments
Very low	\$418	At least 13%	At least 17%
Low	\$669	At least 65%	At least 67%
Moderate	\$1,003	At least 92%	At least 91%

Source: 1990 U.S. Census

A household can typically qualify to purchase a home that is 2.5 to 3.0 times the annual income of that household, depending on the down payment, the level of other long-term obligations (such as a car loan), and interest rates. In practice, the interaction of these factors allows some households to qualify for homes priced at more than three times their annual income, while other households may be limited to purchasing homes no more than two times their annual incomes. Based on the homes sold in the last year and affordability rates at 3.0 times the annual income of a three-person household, Table 3-15 shows that there was only one home affordable to three-person households in the very low-income category in December 1999. It is important to note that subsidized or assisted housing is not included in these housing costs as they are not likely to be listed in local papers.

Table 3-15
For Sale Units Affordable to Lower-Income Households in December 1999

Income Group	Affordability Level	Homes for Sale in December 1999	Percent of All Houses for Sale
Very low-income	\$50,163	1	1%
Low-income	\$80,263	4	3%
Moderate-income	\$120,395	17	11%

Source: San Bernardino County Sun Home Prices, December 1999

Note: Housing unit totals for low- and moderate-income households are cumulative.

3.7.1 Ownership Housing

The California Association of Realtors' (CAR) June 1997 affordability index reports that 57 percent of the households in the Riverside-San Bernardino region could afford a home selling for the median resale price of \$115,570. Their analysis uses an average of fixed- and adjustable-rate mortgages closed in the first week of the month and assumes the people are first-time buyers making a 20 percent down payment and paying 30 percent of their income per month for housing. The indices for the Los Angeles area, Orange County, and the state as a whole were 39, 38, and 44 percent respectively, demonstrating that the Riverside-San Bernardino area has more affordable housing than the region as a whole. However, CAR 1998 home ownership rates in the Riverside-San Bernardino area were only 63 percent, below 1988 rates and behind home ownership rates for the State as a whole.

Using the current median resale price of \$149,500 and estimates of households by income category, the Redlands affordability index is calculated to be approximately 21 percent, assuming a 30-year, fixed-rate loan at 10.5 percent and 30 percent of income payments. That 21 percent of its households could afford the median resale home compared to 29 for the Riverside-San Bernardino region and 12 for Los Angeles illustrates Redlands' standing within the region as a well-off community with still relatively affordable housing.

Based on a review of affordability levels and current home prices, very low-income households could afford homes up to \$71,000, low-income households could afford homes up to \$114,000, and moderate-income households could afford homes up to \$171,000. There were a few homes, according to Redlands' realtors

and newspaper ads, available in the \$71,000 to \$114,000 range that could be purchased by low-income households. Moderate-income households have a much wider choice of new and existing homes within their range of affordability. Also, it is likely that there will continue to be new homes affordable to moderate-income families given the developments listed in Table 2-9 with starting prices at \$157,000.

3.7.2 Rental Housing

Given the maximum affordable rents shown in Table 3-16, a four-person, low-income family could afford the rent for any two-bedroom apartment revealed by our spot survey, and also most of the three-bedroom units and townhouses according to the apartment price survey. This trend of rents available to low-income households has been holding over the past five years. The vacancy rate for rental housing remains a relatively high seven percent.

Table 3-16
Housing Affordability Analysis
San Bernardino County Moderate- and Low-Income Households
October 1999

Household Income Category	Annual Income ¹	Maximum Affordable Rent ²	Maximum Affordable Purchase Price ³	
			With 10% Down Payment	With 20% Down Payment
50 percent of County median	\$23,600	\$590/month	\$107,681	\$121,141
80 percent of County median	\$37,760	\$944/month	\$172,290	\$193,826
100 percent of County median	\$47,200	\$1,180/month	\$215,362	\$242,283
120 percent of County median	\$56,640	\$1,416/month	\$259,545	\$290,739

¹Assumes four-person household.

²Assumes 30 percent of income available for housing cost.

³Assumed 33 percent of income available for housing cost, 10 percent of which goes to taxes, insurance and utilities; 30-year adjustable-rate loan, 6.0 percent interest; down payment as specified. Loan origination fees (points), title insurance, and other closing costs could add another 3 percent to the down payment and effectively lower the affordable purchase threshold.

Sources: Department of Housing and Urban Development, 1999

4.0 HOUSING NEED

The Housing Element focuses on housing needs that are unmet by the housing market. These are primarily low- and very low-income households in Redlands--those whose income is 80 percent or less of the County median. In many California communities, the market is not producing for-sale or rental units affordable by even moderate-income households. In Redlands, the match between income and housing cost has been closer for most households than in the coastal metropolitan area.

This section of the Housing Element evaluates three components of housing need. First is a discussion of housing need by income category as determined by SCAG. The second section analyzes the special needs of persons whose housing choices are limited by factors in addition to income: seniors, large families, female-headed households, farmworkers, disabled persons, and families and persons in need of emergency shelter. The final section addresses immediate need, examining indicators of the number of low- and moderate-income households actively seeking housing, overpaying, or living in overcrowded conditions.

4.1 REGIONAL HOUSING NEED

California Government Code Section 65584 requires SCAG to identify existing housing needs and to project needs in each of the region's jurisdictions at five-year intervals. The 1999 RHNA identified needs as of January 1, 1998, and projects needs to July 1, 2005. The RHNA is designed to address population growth and change, employment patterns and commuting, and housing market problems. Cities were instructed to incorporate into their housing elements programs to meet these needs.

"Existing need" in the 1999 RHNA is defined by the existing number of households with one or more federally defined housing problems. These housing problems include: (1) overcrowding, (2) unaffordability, and (3) substandard housing. Estimates are based upon the latest decennial Census, adjusted for household growth through January 1998. "Future need" is the number of units that would have to be added to accommodate forecasted growth in number of households by July 2005, as well as the number of units that would have to be added to compensate for anticipated demolitions and changes to achieve an "ideal" vacancy rate of 2 percent for ownership units and 5 percent for rental units.

Future need (construction need) is divided into the same four income categories (very low, low, moderate, and above moderate), as defined by State and Federal law. Table 4-1 shows income categories for a family of four based on median income in San Bernardino County in October 1999, as defined by HCD using federal guidelines. SCAG allocations for Redlands in each category are shown for the 1989-1995, and 1998-2005 periods. Housing construction in Redlands fell short of the 1989 to 1995 allocation by 3,319 because of the sharp drop in construction activity resulting from an economic recession affecting the region through the mid-1990s. It should be noted that, had market conditions been favorable during this period, the City could have accommodated these additional dwelling units under its growth management system.

To meet the 1998 to 2005 allocation, Redlands would have to construct 257 units per year. Redlands has already approved or constructed 337 units since January 1998. However, some of these units may not be completed since they were approved in late 1999 (*Note: there was a three-year gap between the period covered by the 1988 SCAG RHNA (1987 - 1994) and the 2000 SCAG RHNA (1998 - 2005) due to a temporary suspension of the state mandate that councils of government prepare regional housing needs assessments*).

Table 4-1
Redlands Housing Need by Income Category SCAG Allocation,
1989-1995 and 1998-2005

Category	Percent of County Median ¹	1999 Household Income	Housing Need 1989-1995	Housing Need 1998-2005
Very Low-Income	Less than 50%	Less than \$23,600	593 (14.9%)	353 (18%)
Low-Income	50-80%	\$23,600-\$37,760	882 (22.2%)	289 (15%)
Moderate-Income	80-120%	\$37,760-\$56,640	726 (18.2%)	388 (20%)
Above Moderate-Income	Over 120%	Over \$56,640	1,781 (44.7%)	901 (47%)
Total Needed			3,981	1,931
Total Additions Constructed			662	337 (As of Jan 2000)

¹1999 County median for a family of four was \$47,200, as determined by HUD.

Sources: California Department of Housing and Community Development; SCAG 1999

4.2 SPECIAL HOUSING NEEDS

For some types of households, limited income is not the only obstacle to finding adequate housing. Finding units of adequate size, location, and design is especially difficult for large households, seasonal workers, senior citizens, disabled persons, and persons and families in need of emergency shelter. California Government Code Section 65583(a)(6) requires an analysis of the special housing needs of these groups. For people with special needs, a fundamental obstacle to determining unmet needs and providing assistance is establishing the number of special needs households. It should be noted that there is undoubtedly overlap among the numbers used in the discussion below. The 1990 Census and other data enumerating special needs households usually do not specify the number of migrant families that are large families or the number of elderly or handicapped persons that are homeless for example. Table 4-2 lists households with special needs as of 1990.

Table 4-2
Redlands Households with Special Needs (1970-1980-1990)

Household Type	1970		1980		1990	
	Number	Percent	Number	Percent	Number	Percent
Elderly	N/A	N/A	3,065	19.5	4,303	19.6
Handicapped	N/A	N/A	1,429	9.1	2,237	11.8
Large Families (5 or More Members)	2,266	19.9	1,905	12.1	2,513	11.3
Overcrowded (1.01 or more persons per room)	642	5.6	549	3.5	1,180	5.4
Minority*	304	2.7	1,792	11.4	3,476	15.8
Female Head	987	8.7	1,455	9.3	3,838	28.3
Total Households	11,404	100.0	15,718	100.0	17,547	100.0

*Minority includes households which identified the head of household as some race other than "White." Hispanic households may be under represented since many reported their race as "White."

Sources: U.S. Census; California Department of Rehabilitation

4.2.1 Housing Needs of Seniors

Senior citizens are identified as a population in need of special housing because of physical constraints that require special housing accommodations or modifications, and limited incomes that prevent many seniors from being able to afford the most suitable housing. Small units in proximity to services and transportation are desirable for many seniors. Other seniors who are able to live independently in their current homes could benefit from financial assistance that helps these seniors to properly maintain their homes or make minor modifications for increased mobility. (Information on the number of seniors with disabilities is provided in the special needs section on persons with disabilities.)

Seniors (65 and older) represented 11.7 percent of the population and 19.5 percent of heads of households in 1980. According to the 1990 Census, the elderly population was comprised of 7,214 people, which represented 11.9 percent of the population. Of these, 4,303 (19.6 percent) were listed as heads of households. A total of 375 (15.2 percent of all seniors) had incomes below the poverty level.

Existing developments designed specifically for seniors include the 170-unit congregate care facility, Mission Commons, built in 1989. In addition, as discussed in Section 2.3, the City owns four homes downtown that are sub-divided to create 13 individual units targeted for low-income seniors. Other affordable housing projects within Redlands are: Citrus Arms with 61 units; Redlands Village Green, a 105-unit non-assisted senior housing facility; and Casa de la Vista, a 75-unit Section 202-income senior housing project completed in 1990. Two 51-unit low-income senior projects in Yucaipa were built by the San Bernardino County Housing Authority to aid seniors in the Redlands area. Finally, the City operates a Senior Repair Grant Program that uses CDBG funds to repair homes owned by very low-income seniors.

The following are senior housing projects that have recently been proposed, approved, or constructed that should provide additional affordable housing for seniors:

- A 53-patient senior citizen assisted-living facility was recently completed by Heritage partners.
- Redlands Senior Housing 2 (Fern Lodge) is developing a 62-unit senior citizen apartment complex. Currently under construction.
- Redlands Christian Home (Mountain View Acres) received approval for a senior care facility consisting of 340 assisted-living units and 30 cottages. The facility accommodates 400 residents and is currently under plan check.
- Regent Assisted Living, Inc. received approval to develop an 84,114 square foot senior care facility, which will house 140 residents. Approved, not constructed.
- Creekside Gardens, L.P. has approval for an 89,864 square foot Senior Assisted Living Alzheimer's Facility that accommodates 164 persons.
- American Baptist Homes of the West has approval to construct a 12-bed Alzheimer's facility.

To further assist in providing additional housing for senior citizens, the City enacted a Second Dwelling Unit ordinance in accordance with Government Code Section 65852.2. This code section allows special housing for senior citizens in any single family district subject to approval of a "use permit."

As indicated in the list above, several senior assisted housing projects will be constructed in the next few years, which will help to accommodate the need for senior housing. Because Redlands has an older, more affluent population, as discussed in Section 1, it seems likely that many seniors are well-off, and some of those having low incomes are "income poor" but "housing rich." Nevertheless, there are a number of senior homeowners (the exact number cannot be determined from available data) who live in older homes in need of repair or accessibility modifications, but who do not have the income or assets necessary to make those needed repairs or modifications. The City provides low interest loans and grants to address this need based on the policy that seniors who are able to live independently in their own homes should be assisted in doing so.

4.2.2 Large Families

Large family households are characterized as a special needs group because they require a greater number of rooms per dwelling unit to avoid overcrowding. In addition, many large families are low-income and cannot afford dwelling units with three or more bedrooms without paying more than 30 percent of their income for housing expenses.

According to the 1990 census, an estimated 11.3 percent of Redlands households had five or more persons, down from the 1980 Census figure of 12.1 percent. While there are few apartments existing or being built with three or more bedrooms, single-family homes made up 18.5 percent of the rental units in 1990, and these would likely have three or more bedrooms. The San Bernardino County Housing Authority reports four-bedroom and larger apartments are difficult to find for its clients. The Authority owns 12 five-bedroom units in the Redlands area in which no vacancies have occurred in at least the last two years. A steady increase in household size between 1990 and 1999 may be correlated with an increase in large families and low-income large families in need of subsidized housing.

In Redlands many large families are renters, primarily because they are lower-income and cannot afford to purchase a home. As a group, large families have a higher incidence of overcrowding because it is more difficult to secure rental housing of adequate size to meet a large family's needs. According to the 1990 Census, 1,565 homeowners (7 percent) consisted of large families, whereas 948 renters (4 percent) were large families.

Section 2 provides apartment rental rates for three bedroom units between \$620 and \$925 per month. Three-bedroom houses rent for between \$800 to \$1,200 per month.

4.2.3 Female-Headed Households

The 1990 Census shows 3,383 female-headed households, 28.3 percent of the total, with no husband present. The Housing Authority reports that 85 of the 101 Section 8 households in Redlands are headed by women.

A large share of female-headed households with children are economically disadvantaged. Chapter 2 identifies a significant number of female-headed households (primarily single mothers) who are below the poverty level. There were nearly as many impoverished female-headed households as married couple families below the poverty level, even though the number of married couples is much greater. Although the ratio is significant, the percentage of households below poverty level is fairly low and does not identify a severe need for this type of housing. However, female-headed households do have a need for low cost housing, suitable for children - outdoor play-space or proximity to parks would be preferable - located near schools and childcare. Innovative shared living arrangements that might include congregate cooking and childcare facilities would also be suitable. Although no such facilities are currently being planned, the City has agreed to contribute \$5,000 for CDBG funding to Bethlehem House in Highland, to pay for part-time staff. Bethlehem House is a shared living project for single mothers which serves families in Redlands as well as those in other East Valley communities.

4.2.4 Seasonal Farmworkers

The 1985 Housing Element reported that the RHNA estimated 135 low-income farmworker households in the City, some of which may be migrant workers. However, agricultural sources believe that citrus industry labor is usually farmworkers who are year-round residents of the remaining small farms in the area. The 1998 RHNA did not estimate the number of farmworker households.

The State Office of Migrant Services, which works in cooperation with local governments to provide decent and affordable housing in 25 centers around the state, has developed no migrant housing south of Arvin in Kern County. They build migrant housing only where the local jurisdiction makes a commitment of donating land to the local housing authority. An official at the San Bernardino Housing Authority reports no knowledge of migrant workers in the County nor of any programs set up to serve them.

4.2.5 Individuals with Disabilities

The Director of Client Services of Rolling Start, a local handicapped services organization, says it is difficult to accurately estimate the number of mentally or physically disabled persons in Redlands. Table 4-3 shows 1,575 persons aged 16 to 64 with work disabilities according to the 1990 Census. A survey conducted by the State Department of Rehabilitation in 1978 and updated to 1981 showed 60,190 persons in San Bernardino County, 6.5 percent of the population, aged 16 to 64 with work or housework disabilities. The Department of Rehabilitation does not keep an ongoing count of its clients by where they live.

Although not all persons with work disabilities require special housing, those with severe mobility constraints need specially designed housing located near transportation, shopping, and services. Because many of the physically handicapped are elderly, projects designed for seniors may also include some specially adapted units for disabled. Some handicapped people, those who require a degree of supervision, are best served by group homes. Converted single-family houses are often used for this purpose.

A project which would serve Riverside and San Bernardino counties. RSB/Harbinger, has converted a small apartment complex into a congregate care facility for mentally handicapped persons and is pursuing approvals for additional units. Funds from San Bernardino County, City of Redlands CDBG Program, and Redlands Redevelopment Agency have assisted this project.

Table 4-3
Work Disability, Mobility, and Self Care Limitation Status

Limitation	Male	Female	Total
16 to 64 years			
Mobility/Self-care Limitation and Work Disability	367	337	253
Work Disability Only	1,052	829	884
Mobility/Self-care Limitation Only	209	427	438
No Disability or Limitations	1,600	17,991	29,860
65 years and over			
Mobility/Self-care Limitation and Work Disability	244	674	918
Work Disability Only	496	590	1,086
Mobility/Self-care Limitation Only	3,159	189	3,348
No Disability or Limitations	1,653	2,205	3,678

Source: 1990 U.S. Census data for the City of Redlands.

4.2.6 Homeless Families and Individuals

State law requires the Housing Element to analyze special housing needs, including emergency shelter, to develop a program which makes adequate provision for the housing needs of all economic segments of the community, and to identify adequate sites for emergency shelters and transitional housing.

SCAG defines the homeless as those "sleeping out" in makeshift shelters, in cars and under freeway overpasses, and those who are "at risk" of homelessness in that they are sharing housing on a temporary basis, are living in single-room occupancy hotels, or their Calworks or other general relief stipend has been canceled twice within one year because they had no forwarding address.

Estimates of the number of homeless in Redlands vary. The Redlands Police Department indicates there are 15 to 30 persons on the streets (May 1995). The Family Service Association of Redlands, which deals with the homeless on a daily basis, estimates there are approximately 442 homeless that participated in their Home Again Project in 1998. The number of participants has steadily grown throughout the 1990s. The Redlands Salvation Army, who assists about 600 to 700 persons every month, estimates that 15 percent have no permanent address. Based on these sources of information, estimates range from 45 to 450. For obvious reasons it is difficult to identify a definitive number for this segment of the population.

There are several non-profit organizations in Redlands that attempt to address/assist the homeless on a daily basis. The majority of these organizations tend to focus on the homeless family. These entities include the

Salvation Army, Family Service Association, Project Home Again, Option House, Inland Temporary Home, Delaware Home (Frazee Redlands Senior Shelter), and the East Valley Information and Referral Service.

The Salvation Army provides the homeless (individuals and families) with daily meals, day care, and some monetary assistance. In addition, they assist families with counseling, motel vouchers, money for gasoline, prescriptions, utility bills, and toiletries. Project Home Again, which has been functional since 1991, also extends their services to include rehabilitation and relocation programs. These entities receive their funding from a variety of agencies and fund-raising activities, including the City's Redevelopment Agency and CDBG. Currently Project Home Again has 133 homeless families on their voucher program. Family Service Association assists an average of two families per day.

The Inland Temporary Home and the Delaware House (Frazee Redlands Senior Shelter) are the only two organizations that offer temporary on-site shelter bed arrangements to the homeless (no voucher programs). The Delaware Home has 15 on-site beds and only extends them to persons 55 years of age or older. Currently the combined bed count between both these entities is 35; however, both organizations are making an earnest effort to acquire additional dwelling units so they can increase their on-site shelter bed program. This project receives assistance from CDBG funding. The East Valley Information and Referral agency assists in providing instant housing information for all types of homeless individuals or families. They maintain close contact with all agencies within the easterly portion of the valley and assist in shelter placements or referrals. This agency receives funding assistance from United Way and the City's CDBG Program.

The housing and social service needs of homeless persons are as varied as their reasons for being homeless. These can range from unemployment, eviction, physical or mental illness, to substance abuse. Many homeless persons need counseling, employment assistance, and shelter. Some need only temporary, transitional shelter. Others may need only short-term financial assistance such as a loan for the first month's rent and security deposit.

The City of Redlands currently has no public programs for dealing with the homeless. The City, however, is able to have some impact upon availability of housing via its General Plan and related policies. As the problems of homelessness continues to grow, City policy makers may need to consider potential public programs to assist with the homeless. Unfortunately, public resources are very limited at this time, making it difficult for policy makers to accept additional responsibilities when most programs are being reduced or cut. Emphasis is currently aimed at assisting those agencies already in the community through financial assistance from CDBG and Redevelopment Agency funds.

4.3 IMMEDIATE NEED

Indicators of immediate need are the number of households overpaying for housing, the number of households in overcrowded conditions, vacancy rates, and the number of people who are currently homeless.

Overcrowding typically results when either: 1) the costs of available housing with a sufficient number of bedrooms for larger families exceeds the ability to afford such housing, or 2) unrelated individuals (such as students or low-wage single adult workers) share dwelling units due to high housing costs. This can lead to overcrowded situations if the housing unit is not large enough to accommodate all of the people efficiently. In general, overcrowding is a measure of the ability of existing housing to adequately accommodate residents and can result in deterioration of the quality of life within a community.

The 1990 Census defines overcrowding as 1.01 or more persons per room, and extreme overcrowding as more than 1.5 persons per room. Since data in relation to overcrowding have not been broken down into housing type by number of rooms, type of household, or by household income, overcrowding must be evaluated in terms of other factors such as cultural expectations, size of rooms, availability and type of common areas or open space, and the age and relationship of persons in the unit. According to the 1990 Census, most housing units in the City had between four to six rooms with approximately 2.7 persons per occupied housing unit.

Tables 4-4 and 4-5 summarize the overcrowding status in the City. Five percent of the City's occupied housing units were overcrowded, compared to 11 percent of the County's occupied housing units. In 1990, there were 790 (9 percent) renter-occupied and 390 (3 percent) owner-occupied units defined as overcrowded in the City. In contrast, 1990 Census figures for the County were 16 percent for renter-occupied and 6 percent for owner-occupied units. Compared to the County, there is a low rate of overcrowding in the City.

Table 4-4
Persons per Room in All Occupied Housing Units

Persons	City	Percent	County	Percent
0.5 or less	14,430	66%	251,009	54%
0.51 to 1.00	6,375	29%	166,239	36%
1.01 to 1.50	728	3%	25,884	6%
1.51 to 2.00	285	1%	13,095	3%
2.01 or more	167	1%	8,510	2%

Source: 1990 U.S. Census

Table 4-5
Overcrowded Housing

Number of Persons per Room	Rental Units	Percent of Total Occupied Rental Units	Owner Units	Percent of Total Occupied Owner Units
Redlands				
1.01 to 1.5	475	5%	253	2%
1.51 or more	315	4%	137	1%
Total	790	9%	390	3%
San Bernardino County				
1.01 to 1.5	14,476	8%	11,408	4%
1.51 or more	14,361	8%	7,244	2%
Total	28,837	17%	18,652	6%

Source: 1990 U.S. Census

Table 4-6 reports 1,180 overcrowded households in Redlands as of 1990 -- 5.4 percent of the total. Of these households, only 452 were severely overcrowded, with more than 1.51 people per room, while the remaining

overcrowded units were only moderately so. SCAG did not consider overcrowded households in its 1998 need calculations.

Table 4-6
Redlands Moderate and Severe Overcrowding
1990

	Number of Households	Percent of Total
Moderate ¹	728	3.3
Severe ²	452	2.1
Subtotal	1,180	5.4
Total	21,985	

¹Moderate overcrowding exists when the number of persons per room is between 1.01 and 1.50.

²Severe overcrowding exists when the number of person per room is over 1.51.

Source: U.S. Census, 1990

Table 4-7 displays households paying more than 30 percent of annual income in 1989, as reported by the 1990 Census, and shows that 33 percent of all households were paying more than 30 percent of their income. Those owning their own homes were considerably better off, as only 25 percent of them were overpaying compared to 45 percent of renters.

The 1998 RHNA, which only considers households making 80 percent or less of the County median income and paying more than 30 percent to be in need, indicates that 23 percent (4,548 households) of all households were overpaying. Of the overpaying households, 27 percent were owners and 73 percent were renters, compared to a 44.7 and 55.3 percent split in 1979. Apparently, renters have increased while the percentage of homeowners has decreased. This is likely explained by the fact that many homeowners in Redlands have been there for some time and have either small housing payments or none.

4.4 ANALYSIS OF ASSISTED HOUSING DEVELOPMENTS

Section 65583(a)(8) requires an analysis of existing housing developments that are eligible to change from low-income housing uses during the next 10 years due to termination of subsidy contracts, mortgage prepayment, or expiration of restrictions on use.

Table 4-7
Redlands Housing Payments Compared to Ability to Pay - 1989

	Household Income				Households*	Percent of Households
	Very low less than \$16,722	Low \$16,723 - \$26,754	Moderate \$26,755-\$40,132	Above Moderate More than \$40,133		
Percentage of Income Paid for Renter-Occupied Units						
Less than 20%	44	303	776	1,333	2,459	29
20% to 24 %	82	572	501	285	1,440	17
25% to 29%	129	556	283	75	1,043	12
30% to 34%	266	449	171	53	939	11
35% and more	2,086	510	107	5	2,708	32
Total Renter-Occupied Units	2,610	2,560	1,838	1,751	8,590	100
Percentage of Income Paid for Owner-Occupied Units						
Less than 20%	468	765	911	3,328	5,472	48
20% to 24 %	143	174	309	1,090	1,716	15
25% to 29%	53	155	326	879	1,412	12
30% to 34%	98	145	291	466	1,000	9
35% and more	487	507	484	399	1,877	16
Total Owner-occupied Units	1,249	1,746	2,321	6,162	11,477	100
Total Occupied Units						
Less than 20%	512	1,068	1,687	4,661	7,931	40
20% to 24 %	225	746	810	1,375	3,156	16
25% to 29%	182	711	609	954	2,455	12
30% to 34%	364	594	462	519	1,939	10
35% and more	2,573	1,017	1,053	404	4,585	23
Total Occupied Units	3,859	4,306	4,159	7,913	20,067	100

* Households reporting income and housing costs only.
Source: 1990 U.S. Census

4.4.1 Housing Developments Eligible to Change

Table 4-8 is a list of each housing development in Redlands, listed by project name and address. The table indicates the type of governmental assistance received, the earliest possible date of change from low-income use, and the total number of elderly and non-elderly designated units that could be lost from the locality's low-income housing stock in each year from 1999 to 2010. None of these projects are seniors only.

Table 4-8
Housing Developments Eligible to Change

Name	Address	Type	Number of Units			Date to Change
			VL	L	Total	
Redlands Park Apartments	1498 Brookside Ave. Redlands, CA 92373	HUD Financed Section 8 221(d)(4)	158		158	Expired 1998
Casa De La Vista	440 Redlands Blvd. Redlands, CA 92373	HUD Financed Section 8 202/8	74		74	2010
Citrus Arms Apartments	151 Judson Street Redlands, CA 92374	HUD Financed Section 8 221(d)(4)	60		61	2000

4.4.2 Assisted Rental Housing Eligible to Convert to Market Rentals

In 1989, the California Government Code was amended to include a requirement that localities identify and develop a program in their housing elements for the preservation of assisted, affordable multi-family units. Subsequent amendments have clarified the scope of the analysis to also include units developed pursuant to inclusionary housing and density bonus programs. In the preservation analysis, localities are required to provide an inventory of assisted, affordable units that are eligible to convert within ten years. As part of the analysis, an estimation of the cost of preserving versus replacing the units is to be included, as well as programs designed to preserve the affordable units.

Assisted housing projects in the City can alleviate the financial hardships low-income households may face. Assisted housing projects are those that offer financial aid or provide extra services for people in need of financial or basic living assistance. There are a variety of programs, each focusing on a specific need or having a specific goal to eliminate unmet housing needs in the community. Contacts with the California Housing Finance Agency, the California Housing Partnership Corporation, the Department of Housing and Community Development, and City staff revealed three subsidized rental housing projects containing 293 rental units that are at risk of conversion to market rate housing between 2000 and 2010. One of the projects is already eligible to convert -- its subsidy expired on September 30, 1998.

With regard to Section 8 projects, the property owner can opt to terminate the Section 8 contract (opt-out), or renew the contract for another five years. The primary incentive for Section 8 property owners to opt-out is the higher rent that would be paid for these units at market value.

In order for the property owner to successfully opt-out of the Section 8 contract, the owner must satisfy certain procedural requirements. A Notice of Intent (NOI) must be filed with HUD one year before the termination date that indicates the owner's intent to convert the units to market rate. Failure to file an NOI within the specified timeframe, or follow the other procedures to opt-out of the Section 8 contract, results in an automatic contract roll-over for five years.

Upon filing of an NOI, HUD may offer several incentives to property owners to remain in their contracts, including re-financing the property mortgage and establishing higher rents charged for the projects.

Pursuant to Section 65863.10 of the Government Code, the property owner of a Section 8 contract must also provide six months advanced notification to each tenant household if the property owner intends to terminate the Section 8 contract. The notice must indicate the anticipated date of conversion and the anticipated rent increase. The property owner is also required to serve notice to the City.

Fair market rents for the San Bernardino County area in fiscal year 2000 are provided in Table 4-9 below. For the 40th percentile fair market rents for manufactured home spaces in the Section 8 Choice Housing Program, space rents in San Bernardino County are listed at \$304 for fiscal year 2000 (Federal Register, October 1999).

Table 4-9

Fair Market Rents for Existing Housing in San Bernardino County

Studio	One Bedroom	Two Bedroom	Three Bedroom	Four Bedroom
\$448	\$499	\$609	\$845	\$999

Source: Federal Register, HUD, October 1, 1999

The cost of conserving the assisted and inclusionary units is estimated to be significantly less than that required to replace the units through new construction. Detailed information is not available to calculate the difference in cost between preserving and constructing units affordable to low-income households. The difference between very low income and market rate rents requires the most subsidy. Preserving low- and moderate-income units does not require as much subsidy. Since land prices and land availability are generally the limiting factors to development of low-income housing, it is estimated that subsidizing rents to preserve assisted housing is more feasible and economical than new construction.

There are three methods of assisting low-income tenants living in at-risk units: 1) provide monthly rental subsidies in the private market, 2) acquire and preserve the presently subsidized units, and 3) construct comparable replacement units.

The estimated cost of providing monthly subsidies to 293 low-income tenants could range from \$500,000 to \$1.2 million annually, based on the range of rents in the local housing market and assuming that those

being assisted will, on the average, have incomes between 30 percent and 50 percent of the San Bernardino County median income for a household of four persons. The average annual subsidy is estimated to be \$900,000, the present value of which over 30 years is about \$15.8 million (assuming a long-term annual inflation rate of 4 percent).

An analysis of rental apartment properties recently for sale found no recent comparable sales in the City. An analysis of apartment sales in nearby communities (Loma Linda, Riverside, Yucaipa, Grand Terrace) found per unit sale prices of \$26,000 to \$65,000 and per square foot cost from \$21 to \$70, depending on the location, unit sizes, number of bedrooms, age, and amenities (Source: LoopNet Inc. web site). Because multi-family properties in Redlands are generally higher value than in San Bernardino or Riverside, the per square foot cost would likely be closer to \$45 to \$55, and the average per unit cost from \$45,000 to \$60,000. The cost of the 293 at-risk units through acquisition of units is estimated to cost between \$13.2 million and \$17.5 million.

The cost of constructing new rental units is estimated to range from \$55,000 to \$75,000 per dwelling unit depending on the size, density, and amenities. The cost of constructing 293 new rental units similar to the assisted units would probably range from \$55,000 to \$65,000 per dwelling unit, or \$16.1 million to \$22 million.

Of the three options for addressing the potential loss of subsidized rental units, the payment of monthly rental subsidies to very low-income households over a 30-year period would cost about the same in present dollars as the cost of acquiring 293 comparable rental units in the local housing market (depending on assumptions). Although this option would guarantee that the same number of very low-income renters are assisted as the number of subsidized rental units that could be lost, the payment of subsidies does not preserve the affordability of rental units or replace affordable rental units lost.

The most costly alternative would be the construction of new replacement units. This alternative could cost as much as 25 percent to 65 percent more than the other alternatives, depending on the assumptions.

4.4.3 Entities Interested in the Right of First Refusal

Should the City determine that the acquisition of existing at-risk rental housing projects is the most prudent course, there are a number of non-profit housing agencies that have expressed an interest in acquiring and preserving affordable rental housing developments in the City. This interest is often referred to as "right of first refusal" because owners of assisted rental housing are required to notify such agencies if the property will be sold and offer them the opportunity to make an offer. Table 4-10 lists these agencies.

Table 4-10**Non-Profit Agencies Interested in the Right of First Refusal**

BUILD Leadership Development Inc.	1280 Bison, STE B9-200	Newport Beach, CA 92660	(949) 720-7044
Century Housing Corporation	300 Corporate Pointe, STE 500	Culver City, CA 90230	(310) 642-2007
Coachella Valley Housing Coalition	45-701 Monroe St. STE G., Plaza I	Indio, CA 92201	(760) 347-3157
Community Partnership Dev. Corp.	7225 Cartwright Ave.	Sun Valley, CA 91352	(818) 503-1548
Foundation for Quality Housing Opportunities	4640 Lankershim Blvd., #204	North Hollywood, CA 91602	(818) 763-0810
Housing Authority of the City of Los Angeles	P.O. Box 17157, Foy Station	Los Angeles, CA 90017	(213) 252-2701
Housing Corporation of America	31423 Coast Highway, STE 7100	Laguna Beach, CA 92677	(323) 726-9672
Jamboree Housing Corporation	2081 Business Center Dr. #216	Irvine, CA 92612	(949) 263- 8676
Long Beach Affordable Housing Coalition, Inc.	110 West Ocean Blvd., # 350	Long Beach, CA 90802	(562) 983-8880
Los Angeles Housing Partnership, Inc.	515 S Figueroa St., STE #940	Los Angeles CA 90071	(213) 629-9172
Neighborhood Hsg Svcs - Inland Empire, Inc.	1390 North D St	San Bernardino, CA 92405	(909) 884-6891
San Diego County SER-Jobs for Progress, Inc.	3355 Mission Ave., STE 123	Oceanside, CA 92054	(760) 754-6500
Shelter for the Homeless	15161 Jackson St.	Midway City, CA 92655	(714) 897-3221
So. California Housing Development Corp.	8265 Aspen St., STE 100	Rancho Cucamonga, CA 91730	(909) 483-2444
Southern California Presbyterian Homes	1111 North Brand Blvd., STE 300	Glendale, CA 91202	(818) 247-0420

Source: California Department of Housing and Community Development

4.4.4 Public and Private Non-profit Corporations

The City of Redlands currently works with the County of San Bernardino, Department of Housing and Community Development, to assist in housing programs and funds for providing and maintaining low-income housing. The City has worked closely with two private non-profit corporations over the past several years--Baptist Homes of America and Corporate Fund for Housing. This association is expected to continue.

4.5 FUNDING SOURCES FOR MAINTENANCE OF LOW-INCOME HOUSING

Section 6 identifies the housing programs available to the City for developing and maintaining low-income housing. Specific programs which the City can specifically identify for preserving these low-income units include the use of CDBG funds and set-aside funds from the Redlands Redevelopment Agency.

4.6 OPPORTUNITIES FOR ENERGY CONSERVATION

There are many opportunities for conserving energy in new and existing homes. Construction of energy efficient buildings does not lower the price of housing. However, housing with energy conservation features should result in reduced monthly occupancy costs as consumption of fuel and energy is decreased. Similarly, retrofitting existing structures with energy-conserving features can result in a reduction in utility costs. Examples of energy conservation opportunities include weatherization programs and home energy audits; installation of insulation; installation or retrofitting of more efficient appliances, and mechanical or solar energy systems, and building design and orientation that incorporates energy conservation considerations.

Many modern design methods used to reduce residential energy consumption are based on proven techniques that have been known to humans since the earliest of days of collective settlement. These methods can be categorized in three ways:

1. Building design that keeps natural heat in during the winter and keeps natural heat out during the summer. Such design reduces air conditioning and heating demands. Proven building techniques in this category include:

- location of windows and openings in relation to the path of the sun to minimize solar gain in the summer and maximize solar gain in the winter;
- use of "thermal mass," earthen materials such as stone, brick, concrete, and tiles that absorb heat during the day and release heat at night;
- "burying" part of the home in a hillside or berm to reduce solar exposure or to insulate the home against extremes of temperature;
- use of window coverings, insulation, and other materials to reduce heat exchange between the interior of a home and the exterior;
- location of openings and the use of ventilating devices that take advantage of natural air flow; and
- use of eaves and overhangs that block direct solar gain through window openings during the summer but allow solar gain during the winter.

2. Building orientation that uses natural forces to maintain a comfortable interior temperature. Examples include:

- 1.07 north-south orientation of the long axis of a dwelling;
- 1.08 minimizing the southern and western exposure of exterior surfaces; and
- 1.09 location of dwellings to take advantage of natural air circulation and evening breezes.

3. Use of landscaping features to moderate interior temperatures. Such techniques include:

- 1.10 use of deciduous shade trees and other plants to protect the home;
- 1.11 use of natural or artificial flowing water; and
- 1.12 use of trees and hedges as windbreaks.

In addition to natural techniques that have been used for millennia, a number of modern methods of energy conservation have been developed or advanced during the present century. These include:

- 1.13 use of solar energy to heat water;
- 1.14 use of solar panels and other devices to generate electricity;
- 1.15 window glazing to repel summer heat and trap winter warmth;
- 1.16 weather-stripping and other insulation to reduce heat gain and loss; and
- 1.17 use of energy efficient home appliances.

State Building Code Standards

The California Energy Commission was created in 1974 by the Warren-Alquist State Energy Resources Conservation and Development Act (Public Resources Code 25000 et seq.). Among the requirements of the new law was a directive for the Commission to adopt energy conservation standards for new construction. The first residential energy conservation standards were developed in the late 1970s (Title 24, Part 6 of the California Code of Regulations) and have been periodically revised and refined since that time.

Residential site design and construction techniques that can reduce the amount of energy used for space cooling would significantly reduce overall energy demand. As discussed above, a number of traditional and modern techniques can decrease energy used for space cooling, including:

- 1.18 the orientation of buildings and windows with respect to the path of the sun;
- 1.19 landscaping to shade and insulate buildings;
- 1.20 insulation in walls and ceilings;
- 1.21 thermal mass to absorb solar energy during the day and release it at night; and
- 1.22 window treatments to reduce solar gain during the day.

The City's abundant sunshine provides an opportunity to use solar energy techniques to generate electricity, heat water, and provide space heating during colder months, as well. Natural space heating can be substantially increased through the proper location of windows and thermal mass.

There are policies directing energy conservation through design and techniques as discussed above in the Housing Element. Compliance with City and state policies on energy conservation can reduce household energy consumption.

5.0 ABILITY TO MEET HOUSING NEEDS

Section 65583(a) of the California Government Code requires an analysis of potential and actual governmental and non-governmental "constraints upon the maintenance, improvement, or development of housing for all income levels." This section describes those constraints; Section 6 includes policies relevant to the reduction or elimination of the constraints identified.

5.1 GOVERNMENTAL CONSTRAINTS ON THE PRODUCTION OF HOUSING

5.1.1 Land Use and Growth Controls

The Redlands General Plan and Zoning Ordinance establish locations where housing can be built, and identify housing density, lot size, setbacks, and required site improvements. Land-use controls can be viewed as a restraint in that they determine the amount of land to be developed for housing and establish a limit on the number of units that can be built on a given site.

In Redlands, the most significant possible constraint to unrestricted (market-determined) residential development *are voter initiatives adopted in past years. The first voter initiative was Proposition R. As later amended by Measure N (a zoning ordinance) residential dwelling units constructed within the City are limited to 400 units a year, and limits the extension of utilities to 150 units per year outside the existing City limits.* Of the 400 units within the City, 50 are, by resolution, reserved for single family homes, duplexes, triplexes and four-plexes on existing lots, while the remainder are to be allocated on a point system adopted as Ordinance No. 2036, which emphasizes design amenities. Measure U, adopted by the voters in 1997, was a General Plan Amendment which reinforced and modified certain provisions of Measure N, adopted Principles of Managed Growth, and reduced the development density of San Timoteo and Live Oak Canyons by creating a new land use category named Resource Preservation. These growth management measures were adopted in response to rapid residential development during the 1980s, in which 30 percent of the current housing stock was constructed in a single decade. This pace of development was an aberration in the City's development history and would not likely be repeated even without growth management. Under the present growth management system, the City's housing supply could expand by 11 percent over seven years, about half the pace of development during the 1980s, but yet five times the pace of development that occurred during the 1990s.

Under the requirements of Proposition R, as amended by Measures N and U, the City estimates that, *based on the above stated formula, 4130 housing units could be accommodated in the City and its sphere of influence between 1998 and 2005, which is significantly greater than the SCAG RHNA allocation and projected market demand for housing.* The Southern California Association of Governments' (SCAG) 1998 to 2005 housing needs allocation for Redlands is 1,931 units. To accommodate this number of units, the City would need to develop 276 units each year. *Annual housing unit additions averaged only 35 between 1995 and 1997 with 26 units built in 1995, 44 units built in 1996, and 34 units built in 1997. From 1998 through 2000, permits have been issued for 500 units, of which 62 were for apartments, as the housing economy has picked up. In 2001, the City issued a total of 302 of permits for new residential dwelling units. Of these, eighty-four or 28% were for an apartment project.* In addition, the Redlands' City Council has taken steps to meet the City's allocation, while complying with Proposition R, as amended by Measure N and Measure U, by determining that congregate care and single room occupancy (SRO) units will not count against the Proposition's limitations. The possible implications of the Proposition upon Redlands' ability to meet its housing needs allocation are shown in Table 5-1.

A constraint that has been identified as a result of Proposition R and, as later amended, Measure N, has been the stipulation that the allocation of dwelling units (400 per year in the City and 150 per year in the sphere of influence) cannot be carried over from one calendar year to the next. Therefore, each January the allocation of building permits begins again with a new set of four hundred dwelling units for which building permits can be issued during that year. While it is not expected to be a constraint, given the fact that the current SCAG housing allocation requires 276 dwelling units could be built per year over the life of the current Housing Element, a concern has been identified that the inability to carry over the unused portion of the annual allocation could potentially limit the ability of the City to meet its goals. Therefore, a program has been added to the Element which would direct the City to evaluate initiating a ballot measure to allow carryover of unused dwelling units.

One provision of Measure U was to amend the Redlands General Plan Policy 4.4 q to read: "Plan for a housing mix at buildout consisting of 75 percent single family dwelling units and 25 percent multifamily dwelling units." As of October, 2000 based on Department of Finance estimates supplemented by the City of Redlands building permit data, Redlands had a total of 24,798 dwelling units in its housing stock. Of these, 17,668 (71.2%) were single family dwellings (single family detached, single family attached and mobile homes) and 7,130 (28.8%) were multifamily dwelling units. The City Council has adopted a clarification of this policy that further adjusts these numbers by determining that condominiums will be considered single family dwellings for purposes of this calculation.

The City Council, in its effort to address a long term implementation program to deal with the 75/25 policy, formed a committee made up of two City Council members and two Planning Commissioners. A detailed report was prepared which addressed an analysis of existing conditions and the impacts of Council policies and interpretations on the estimated numbers of existing and build out units in both the single-family and multi-family categories. As a result of that analysis, it was estimated that at build out with a detailed vacant land inventory, there would be an additional 6,322 new single-family units and 1,794 new multi-family units in the City.

Existing units were also adjusted to consider the Council policies and definitions and to consider units in our sphere of influence that will be annexed to the City in the future. These adjustments resulted in a total of 14,233 existing single-family units and 7,416 multi-family units. The combination of existing and future build out units resulted in 25,555 single-family units (73.5%) and 9,210 multi-family units (26.5%).

In evaluating implementation alternatives to achieve a strict 75%/25% single-family to multi-family ratio, a number of alternative scenarios were discussed by the committee. These included changing the density of various vacant land sites to a lower density, and changing the maximum density of Land Use Designations. There was a detailed analysis of actions that could be adopted by parcel through which a projected 75%/25% single-family/multi-family housing balance could be accomplished.

After considerable discussion, the committee elected to recommend that no land use changes be initiated. This was based on the conclusion that the current projected numbers are generally close to meeting the criteria, and future projections are only estimates at best. As an alternative, the committee recommended that the City monitor single-family and multi-family development on an annual basis and evaluate if any course corrections are needed in the future.

This action was based on the conclusion that there are too many variables in making future growth decisions, and it was appropriate to allow development to occur under the current general plan land use

element, rather than make unnecessary, precipitous changes that may prove inappropriate on a parcel by parcel basis.

Table 5-1
Redlands' Ability to Meet SCAG Housing Needs - Number of Dwelling Units Allowed
2000-2005

	Units/Year	Total 1998-2005
SCAG 1998-2005 RHNA	257	1,931
Redlands Units Allowed Under Measure N		
Incorporated Area	400	2,800
Unincorporated (to be annexed)	150	1,050
Congregate Care Units (assumed)	35	245
Single Room Occupancy Units (assumed)	5	35
Total	590	4,130

Sources: Southern California Association of Governments (SCAG). 1999 Regional Housing Needs Assessment; City of Redlands; Parsons.

5.1.2 Development Fees

Since the passage of Proposition 13 in 1978, which both reduced tax revenues and limited alternative financing mechanisms, cities have increasingly passed on the cost of capital improvements directly to new development in the form of fees. In 1995 the City undertook a comprehensive fee study.

General obligation bonds requiring two-thirds voter approval, although reauthorized in June 1986, are not widely regarded as an alternative to fees. The cost effects of fees are subject to debate. Tax incidence theory suggests that a rise in the cost of new housing construction associated with a rise in fees or taxes should cause, to some extent, lower raw land values. This comes about because home builders cannot sell homes if the costs of ownership are appreciably higher than for comparable new or existing homes elsewhere in the market area, and so must reduce their costs somehow. In theory, builders will either pay less for land, lower the housing quality, or take lower profits. However, in a housing market area where all jurisdictions charge

similar fees, higher costs tend to be passed on to the consumer. In addition, fees affect the price of existing housing, assuming it can be substituted for new housing.

In 1997 development fees were increased, in many instances doubled. For example, water and sewer capital improvement fees were increased from \$1,800 per unit to \$3,600 per unit. Because current fees are assessed per unit and low- and moderate-income units are not exempt, the fees constitute a significant share of the cost of producing housing at market minimum prices. This effect is amplified by Redlands' allocation system, which awards up to 60 points for design considerations. Developers who want to increase their chances of winning an allocation will include more amenities; these then drive up the cost of their product. This is somewhat offset by provisions that allow 10 points to be awarded for low- and moderate-income and senior citizen housing.

Table 5-2 lists development fees as of September 1999. Total fees for a single-family home, assuming a 1,600 square foot home on a 7,200-square-foot lot, in a 6-unit tract, including a General Plan Amendment and Zone Change but not including the environmental fees, add up to approximately \$25,500, of which approximately \$11,400 is for sewer and water charges. Other impact fees, covering traffic signals, street improvements, storm drains, public facilities -- for City Hall, the library, the Police and Fire Departments, and schools and parks--account for \$11,000 of the total per unit fees.

The City recognizes that development fees, although necessary to pay for facilities and services required by new development, add significantly to the cost of housing and affect the feasibility of constructing affordable housing. For this reason, the City has used, and will continue to use, redevelopment housing set-aside and grant funds to pay for development fees if necessary to maintain the financial feasibility of an affordable housing development proposal.

Table 5-2
Redlands Development Fees
2000

Fees	Single Family - 1600 s.f. 6 du/ac	1 Acre Townhouse 1200 s.f. 10 du/ac	1-Acre Multifamily 900 s.f. 18 du/ac	1-Acre Multifamily 600 s.f. 27 du/ac
General Plan Amendment - Not generally required	\$5,200 (@6 units = \$867/unit)	\$5,200 (\$520 /unit)	\$5,200 (\$289/unit)	\$5,200 (\$193/unit)
Zone Change	\$3,300 (@6 units = \$550/unit)	\$3,300 (\$330/unit)	\$3,300 (\$184/unit)	\$3,300 (\$123/unit)
Conditional Use Permit (would need CUP OR Commission Review)	None	\$4,450 (\$445/unit)	\$4,450 (\$248/unit)	\$4,450 (\$165/unit)
Commission Review and Approval (would need CUP OR Commission Review)	None	\$2,395 (\$240/unit)	\$2,395 (\$133/unit)	\$2,395 (\$89/unit)
Tentative Tract Map Review	\$4,600 (@6 units = \$767/unit)	\$4,600 (\$460/unit)	N/A	N/A
Final Tract Map Review	\$1,800 (\$300/unit)	\$1,800 (\$180/unit)	N/A	N/A
Building Permit (per unit)	\$1,030	\$799	\$365	\$200
Building Plan Check (per unit)	\$669	\$517	\$240	\$130
Plumbing (permits per unit)	\$100	\$95	\$195	\$160
Mechanical (per unit)	\$49	\$71	\$35	\$35
Electrical (per unit)	\$102	\$82	\$80	\$60

Table 5-2
Redlands Development Fees
2000

Fees	Single Family - 1600 s.f. 6 du/ac	1 Acre Townhouse 1200 s.f. 10 du/ac	1-Acre Multifamily 900 s.f. 18 du/ac	1-Acre Multifamily 600 s.f. 27 du/ac
Garage permits	\$289	\$289	\$289	\$289
Public Works fees	\$565	\$,1645	\$1,080	\$1,080
Sewer Frontage charges	\$17 PER FRONT FOOTAGE PLUS THE FOLLOWING FEES:			
	\$3,600/unit	\$3,600/unit	\$3,600/unit	\$3,600/unit
Water Frontage charges	\$17 PER FRONT FOOTAGE PLUS THE FOLLOWING FEES:			
	\$720/unit	\$720 min./unit	\$360/unit	\$360/unit
Water (Capital Improvements)				
Meters	\$3,600/unit	\$3,600/unit	\$1,800/unit	\$1,800/unit
Valves	\$165/unit	\$165/unit	Varies	Varies
Security Deposit (Refundable)	\$180	\$180	by Contractor	by Contractor
Solid Waste	\$650	\$650/unit	\$325/unit	\$325/unit
Public Improvement Plan Check	N/A	N/A	N/A	N/A
Development Impact Fee (north section)				
Storm Drains (per units)	\$746	\$348	\$348	\$348
Street Improvements (per unit)	\$1867	\$	\$	\$
Traffic Signals (per unit)	\$261	\$	\$	\$
Public Facilities (per unit)	\$3278	\$3278	\$3278	\$3278
Fire	\$463	\$397	\$330	\$264

**Table 5-2
Redlands Development Fees
2000**

Fees	Single Family - 1600 s.f. 6 du/ac	1 Acre Townhouse 1200 s.f. 10 du/ac	1-Acre Multifamily 900 s.f. 18 du/ac	1-Acre Multifamily 600 s.f. 27 du/ac
School Fee \$1.93/s.f.	\$2,400 min \$3,961 max \$3,088 *	\$1,600 min \$2,316 *	\$1,600 min \$1,737	\$1,600 min \$1,600
Parks (per unit estimate) (1% OF ESTIMATED VALUATION OF DWELLING)	\$1261	\$945	\$630	\$630

* Reimbursement possible under California Housing Finance Agency's School Facility Fee Down Payment Assistance Program for low income for sale units.

Sources: Redlands Public Works, Utilities, and Community Development Departments.

5.1.3 Building Codes

Redlands currently requires residential construction to comply with the Uniform Building Code and other standard codes. Fire sprinkler systems are also a requirement on all new residential units, which does add a cost of approximately \$1 per square foot on all new residential construction.

5.1.4 Other (Including Initiative) Processing Requirements

Environmental Impact Report or Initial Study/Negative Declaration (\$2,750 to \$50,000 +)

All projects must meet the requirements of the California Environmental Quality Act (CEQA). A review is made to determine if the project is exempt. If not, an Initial Study is completed by staff to determine if a Negative Declaration is appropriate or if an Environmental Impact Report (EIR) is required. The City has little discretion over the environmental documentation process. Costs to the applicant can range from \$500 for the initial review to \$2,750 for a Negative Declaration to \$50,000 or more, dependent on the scope of the project, for an EIR.

Residential Development Allocation (RDA) and History

Several growth management ballot initiatives have been approved, and several denied, by the electorate. These have had an effect on the development review process but have NOT limited the number of dwelling units requested by developers during the 1990s (primarily due to the market conditions). The RDA is a cumbersome procedure, however, and adds time to the total development approval process by requiring that homebuilders first receive an allocation before proceeding with development plans.

Proposition R, approved by the voters in 1978, allowed a maximum of 450 dwelling units to be added to the City per year, 50 of which were to be reserved for single-family homes on existing lots. It also required a point system, the RDA, be applied to each project so that projects could compete against each other for an allocation. It is applied to all residential projects that involve more than four units. Proposition R also provides that no more than 150 sewer and/or water connections can be extended to residential units in the area outside the City limits.

Measure N, a zoning ordinance approved by the voters in 1987 that amended Proposition R, allows a maximum of 400 dwelling units to be added to the City each year. Other provisions remained essentially the same as Proposition R. Under Measure N, no land designated by the General Plan as urban reserve as of June 1, 1987, is to be redesignated for a higher density than one dwelling unit per 14,000 square feet of net site area, except by a four-fifths vote of the City Council.

Although a 1995 growth measure was defeated, voters adopted a General Plan Amendment, Measure U, in 1997 that reinforced and modified certain provisions of Measure N, adopted Principles of Managed Growth, and reduced the development density of San Timoteo and Live Oak Canyons by creating a new land use category entitled Resource Preservation. Measure U has a negligible effect on the ability of the City to accommodate future residential development because it concerns an area of the City with steep hillsides, natural resources, and other conditions that would limit the development potential of this part of Redlands anyway.

Additional modifications to the City's growth management process were placed before the voters in 1999, but these two initiatives were defeated by the voters.

The RDA system costs \$4,350 and awards points in the areas of:

- Consistency with zone classification and standards (maximum 5 points)
- Relationship of project to public services (maximum 61 points)
- Tract design, architecture and construction (maximum 60 points)
- Low- and moderate-income and senior citizen housing (maximum 10 points)

The latter category allows up to 10 points for up to 10 units for low- and moderate-income families or up to 6 points for a project with 90 to 100 percent of the units for senior citizens. The potential points in this category are small compared to the total points available, however. To encourage more affordable and senior housing, the City could increase the points awarded to affordable or senior housing.

Although affordable housing might score higher under a revised system that awards more than ten points for low-income or senior housing, the City has concluded that most points awarded under the system relate to project factors that would likely be incorporated into typical affordable or senior housing developments as standard practices. While low-income or senior housing developments may not qualify for the maximum points in all rating categories, the City believes that most such projects will score high enough in most of the rating categories to be competitive with market-rate housing proposals. The City's RDA system is not anticipated to create significant barriers to the approval of affordable housing developments. The City could consider adjustments to the point system to provide greater advantages to affordable or senior housing proposals in exceptional cases in which site- and project-specific circumstances do not permit a proposal to score favorably under the RDA system.

There may be cost implications to several of the locational and design factors included in the evaluation system, however, which the City can address through other regulatory incentives (such as density bonuses with reductions in certain development standards) and financial assistance to affordable housing developments. In addition, a substantial percentage of affordable housing is anticipated to be provided in mixed-income projects in which the majority of dwelling units are market-rate. Such projects will have a greater capacity to absorb marginal increases in costs from the application of the City's RDA system.

The specific rating factors and their likely impacts on affordable housing proposals are discussed below:

Consistency with zoning standards (5 points). Consistency with the City's zoning is required of all projects and does not create barriers to the approval of affordable housing developments, per se.

Relationship of project to public services (61 points). The rating factors in this category include:

1. **Project location** - up to 15 points are awarded, depending on whether the project site abuts existing developed areas on one, two, or three sides, or is in close proximity to already developed sites. Typically, affordable housing proposals would be located in developed areas, where transportation, infrastructure, and other services and facilities are already present.
2. **Access to emergency fire services** - up to ten points are awarded for proximity fire services. The first points (5) are awarded to projects located within 1.5 miles of an existing first-due engine company. Most sites designated for higher density housing are within 1.5 miles of a first-due engine company. An additional five points are awarded to projects that are sprinkled according to NFPA Residential Sprinkler Pamphlet 13D-5. Sprinkling according to NFPA guidelines could add substantially to the cost of an affordable housing development, but this cost could be defrayed through City financial assistance.
3. **Storm and flood drainage** - up to five points are awarded based on the percent of lot coverage by roof and paved areas. The typical lot coverage for a higher-density affordable housing development would probably result in zero points under the current rating system. This point disadvantage could be offset

for a higher maximum point score for housing affordability.

- 4. Availability of water service - up to five points are awarded depending on whether the project can be accommodated within the existing water distribution system and no off-site extension or increase in size of water lines are necessary to serve the project. The City anticipates that most affordable housing developments on higher density-zoned sites would qualify for the maximum or near maximum points in this category. Additional points are awarded for water conservation measures (drought tolerant plants, less acreage devoted to turf, water conserving appliances) that are standard practice in many new affordable housing developments.*
- 5. Wastewater collection - up to five points are awarded based on the need to upgrade or extend off-site sewer lines to accommodate a project. The City anticipates that most projects can be accommodated within existing sewer collection lines. Up to three points are awarded for projects that provide oversized pipelines that can allow other, unsewered projects to connect to the City's system or that provide facilities or pipelines that benefit existing users.*
- 6. Street/traffic improvements - up to five points are awarded based on the need for minor or major off-site street or traffic improvements that will require a City contribution. Projects that do NOT require off-site improvements by the City score highest.*
- 7. Schools - up to ten points are awarded based on a project's proximity to a school. Projects within safe walking distance will receive higher points. The impact of this criterion on an affordable housing proposal depends on the location of the proposed project site in relation to an existing or planned school. Many sites presently zoned for higher density residential use that could accommodate affordable housing would meet the "safe walking distance" criterion. This criterion would not be applicable to senior housing.*
- 8. Parks - up to two points are awarded based on project's proximity to a developed park. The impact of this criterion on an affordable housing proposal depends on the location of the proposed project site in relation to an existing park. Many sites presently zoned for higher density residential use that could accommodate affordable housing would meet this criterion.*

Project Design (60 points). *The rating factors in this category include:*

- 1. Architectural design - up to ten points are awarded based on design "quality," neighborhood consistency, and durability and appearance of exterior materials. Points in this category are based on the quality and durability of roofing materials, the design of elevations (particularly facing public rights-of-way), orientation of garages, and project entry appearance. These criteria do not require a developer to use the most expensive materials to obtain maximum points in this category. Design objectives related to facade treatments or architectural style do not necessarily require substantially costlier construction techniques. Most affordable housing developments would use design approaches that meet City criteria as a standard practice and would be treated the same, therefore, as market rate developments. Cost increases resulting from design requirements could be off-set through redevelopment or grant funding, however.*
- 2. Site and grading design - up to 13 points are awarded for site and grading design that respect existing topography, reducing the amount of grading necessary, provide variable set-backs, include open spaces, preserve special views and ridgelines, provide solar access, preserve privacy, avoids environmentally sensitive areas, and provides curvilinear street patterns. Most of the issues raised in site and grading design affect single-family subdivision in hillside and environmentally sensitive areas of the City, not sites zoned for higher density residential use which are appropriate for affordable housing developments.*

3. *Circulation - up to seven points are awarded for pedestrian safety, preservation of privacy with neighboring properties, and avoidance of conflicts with neighboring street intersections. None of these criteria are expected to adversely affect or create significant costs for affordable housing developments.*
4. *Landscaping - up to ten points are awarded for the preservation of existing ornamental trees and basic land forms, provision of a variety of landscaping, screening of undesirable features (such as waste receptacles), use of drought-tolerant plants, and water conserving irrigation systems. Points are also awarded for the use of decorative masonry walls and covenants that bind property owners for maintenance of landscaping. With the exception of masonry walls, none of the landscaping rating factors will significantly increase development costs. In fact, use of water conserving plants and irrigation techniques will save project operations expenses. Screening of undesirable features is standard practice in new developments. The added cost of masonry walls would not ordinarily be a "make or break" issue for the financial feasibility of most affordable housing projects. The City could provide financial assistance to help meet this added cost, if necessary.*
5. *Open space - up to five points are awarded to multifamily proposals that provide open space and on-site recreation amenities substantially in excess of minimum development standards. These criteria could add substantially to the cost of an affordable housing development if the amount of open space needed to increase a project's overall point total reduces the number of achievable dwelling units. For most projects, this result is unlikely, however.*
6. *Agriculture - up to ten points are awarded to projects that use transfers of development rights to preserve agricultural lands, do not require the rezoning of land from agricultural use, and are not located adjacent to an agricultural preserve or in the immediate vicinity of land under a Williamson Act contract. None of the sites designated for higher density residential development will require rezoning of land or are next to agricultural preserves or Williamson Act lands. The cost of using transferred development rights to qualify for maximum points in this category would likely exceed the financial feasibility of most affordable housing developments without additional subsidies.*
7. *Historic Resources - up to five points are awarded to projects that preserve historically significant resources and/or do not adversely impact the character of any historic or cultural resource in close proximity to, or within, the project. Most of the sites designated for high density residential use will not be adversely affected by this policy. Design compatibility to address nearby historic or cultural resources is not expected to significantly add to overall development costs. If unusual circumstances arise that do significantly add to the cost of an affordable housing development, the City could use redevelopment funds, or assist the project developer in accessing state or federal funding, to help defray these costs.*

Table 5-3 lists a history for all Residential Development Allocations (RDAs) since 1986. There were a total of fifty-three (53) RDAs processed in the last fifteen (15) years. Of these, fifteen (15) were for multi-family development, and thirty-eight (38) were for single-family projects and mobile home parks.

During this time seven (7) projects, both single-family and multi-family, did not score sufficient points to be approved. In almost every case, the project was resubmitted later and was subsequently authorized for permit issuance. It should be noted that during the time when some project RDAs were not approved, the City was experiencing a high rate of construction activity and was maximizing its development potential based on Propositions R and N. Thus, there was an element of competition in the process. However, it should also be noted that both single- and multi-family projects were approved during this high growth period as well.

During the slower growth decade of the 90s, no projects were found to be unacceptable; however, each had to meet the minimum criteria specified by the RDA process. The only exception to this was a 62 unit senior citizen apartment project which was exempted from the RDA process.

Table 5-3
Residential Development Allocations for 1986 through 1999

RDA #	RDA NAME	PROJECT TYPE & DESCRIPTION	# OF POINTS
86-IA	Medici	40 units single-family (previously 40 unit duplex)	89
86-II-1	Pulsar Development Co.	54 units single-family	74
86-II-11	Pridemark	20 units single-family	62
86-II-111	Boreham_Huson-Riddle	122 unit mobile home park	73
86-III-1	James Kormos	152 units multi-family	93 ¹
86-III-2	Pridemark	19 units single-family	93
86-III-3	Boreham-Huson-Riddle	32 unit mobile home park	91
86-IV-1	Hill Williams	35 units single-family	97
86-IV-2	James Kormos	35 units multi-family	89
86-IV-4	Brookshire	38 units single-family	85
86-IV-5	Pulsar	61 units single-family	85
86-IV-6	SWR Development	60 units multi-family	91
86-IV-7	K.I. Investment	38 units single-family	98
87-II-1	James Kormos	23 units multi-family	90
87-II-2	Patrick Kung	62 units multi-family	87
87-II-3	USA Properties	35 units single-family	97
87-II-4	Brookshire/Heaverin Venture	35 units single-family	107
87-II-5	Pulsar Development	36 units single-family	90
87-II-6	Day Enterprises	35 units single-family	92
87-III-1	Orange/Kansas Partnership	68 units multi-family	93
87-I-1	James Kormos	35 units multi-family	89
87-I-2	Day Enterprises	23 units single-family	86
¹ First time that minimum 90 points were required for approval of allocation.			

RDA #	RDA NAME	PROJECT TYPE & DESCRIPTION	# OF POINTS
87-I-3	Brookshire	17 units single-family	90
87-I-6	USA Properties	35 units single-family	85
87-III-2	Pulsar Development	5 units single-family	90
87-III-3	James Kormos	20 units multi-family	93
87-III-6	USA Properties	8 units single-family	99
87-III-8	Brian King	7 units planned residential development	104
87-IV-5	Fern Square	57 units multi-family	90
88-III-1	H & S Development	62 units multi-family	92
88-III-4	Fern Square	22 units multi-family	96
88-III-2	G.L. & D.L. Wennemen	8 units single-family	90
89-I-1	H & S Development	23 units multi-family	93
89-I-2	H & S Capital Enterprises	35 units single-family	103
89-II-1	Parallel West Investments	28 units multi-family	90
89-III-1	J.J. Ramirez	8 units multi-family	90
90-II-1	Hung Yeh Development, Inc.	39 units single-family	90
90-IV-1	Randall Properties	43 units single-family	96
91-I-1	Hill Williams	9 units single-family	90
92-I-1	Andley Development	47 units single-family	91
94-I-1	Ladera Partners	50 units single-family	93
96-II-1	C.W. Group, LLC	11 units single-family	90
97-III-1	Osborne Development Co.	58 units single-family	99
97-IV-1	Classic Pacific	40 units single-family	90
98-II-1	Jeffrey Homes	36 units single-family	90
Exempt from RDA	Fern Lodge	62 units multi-family	
99-IV-1	Curtis Development	160 units single-family	91
00-I-1	Shih Yen (Homer)	11 unit single-family	92
00-I-2	Larry Luebbe	14 units single-family	95

RDA #	RDA NAME	PROJECT TYPE & DESCRIPTION	# OF POINTS
00-I-3	Steven Walker	33 units single-family	96
00-II-1	J.F. O'Brien	13 units single-family	100
00-II-2	Pioneer Redlands Association, L.P.	62 units single-family	100
00-III-1	BHS, Inc.	9 units single-family	94

5.1.5 Socio-economic Study and Cost Benefit Analysis

Any project with a building or development area exceeding a cumulative total of 5,000 square feet or more requires a socio-economic study and cost-benefit analysis and must also submit additional information, including absorption schedule or rate, proposed assessed value, and proposed public improvements. The cost is \$2,500 for a project that has a negative declaration and \$5,000 for a project that requires an EIR. The staff prepares the study and analysis that is reviewed by the Environmental Review Committee along with the initial study. The documents are reviewed by the Planning Commission and City Council in making a decision on the proposed project. This requirement was added by Measure U in 1997. Residential developments generally have a positive impact because a sales tax factor is included. However, there is a direct relationship between the cost of the residential unit and the benefit provided.

5.1.6 Permit Processing

Residential construction involving single family owner and custom built detached homes, mobile homes, and two- to four-unit multi-family projects are approved at a staff level. Projects are evaluated relative to zoning code and building code standards and receive approvals within two to four weeks of application. Preliminary review is available to smaller projects; however, most questions can be answered at the "one-stop" counter.

Residential construction involving tracts and larger multi-family projects utilize a different processing schedule. A preliminary review process is required to assist in the initial review and coordination of a project and to assist applicants in understanding City codes, standards, and application requirements. Applicants are made aware of the City's ability to "fast-track" projects and the developer's schedule is evaluated in the context of mandatory reviews and noticing requirements. The initial step is to file for environmental assessment in accordance with CEQA. These are noticed hearings held before a technical advisory committee with a filing date three weeks prior to the hearing (Review/Processing Time, 11 working days).

Depending on the size and nature of these projects, they either are required to prepare an Environmental Impact Report (3-6 months depending on private contract as agreed to by developer) or a Negative Declaration prepared by City staff (no additional time to process). Projects are generally filed concurrently. Upon completion of CEQA requirements, the application is filed and scheduled for Planning Commission review and action. Hearings are generally scheduled 4 weeks from filing. The limiting factor here is CEQA standards requiring a 20-day notice to be published in the paper (Review/Processing Time, 2 working days).

Residential projects with four or fewer units and lot sale subdivisions can be submitted for plan check. A residential project which is subject to Proposition R must receive a development allocation before it may be granted a building permit. The City Council makes allocations four times a year, 117 allocations in each of the first three quarters and the remainder in the fourth. Staff assists applicants in preparing applications.

Once filed, processing and review generally takes five weeks, and allocations are awarded by the City Council (Review/Processing Time, 27 working days). Once a project receives its allocation and plan approvals it submits for plan check which takes from 2-4 weeks and is then ready for issuance of building permits. (Review/Processing Time, 1-20 working days). The minimum staff review time for a residential project is 70 working days or 3 1/2 months.

At all stages of the process the applicant has information and application responsibilities which can extend processing time significantly. Generally, projects average seven months for processing from submittal to final approval with an additional four months added when an Environmental Impact Report has been required as a result of CEQA review.

As City resources are available, staff has been able to "fast track" projects through the City. All steps are accomplished; however, applicants are permitted to overlap steps, and deadline dates are adjusted to meet a developer's time requirements. This does require additional staff resources and involves risk on the part of the developer (See policy [6.4m]).

With regard to multi-family (apartment) projects, the Zoning Code allows up to 34 units to be approved under a site plan approval process without a public hearing. When projects are proposed that have 35 or more residential units, the Code requires that the project be subject to a conditional use permit for which a public hearing is required. This requirement was adopted because of the potential for neighborhood conflicts due to traffic, noise, and aesthetic concerns among others. This public hearing gives the neighborhood the opportunity to participate, voice their concerns, and ensure that the projects are as compatible as possible with existing development. The threshold of 35 units is established as a matter of City policy and could be adjusted upward by the City Council as a result of an ordinance text amendment if there was a need and justification for the change. While this has not been a factor in the past in inhibiting affordable housing as evidenced by recent, as well as historic, multi-family project approvals, a program has been identified in Section 6.4 for future evaluation of the need for such an adjustment.

5.1.7 Zoning And Development Standards

The City establishes standards for each of its residential zoning districts. The lot size, unit density, height, lot coverage, set backs, open spaces, design review, and parking standards are established to ensure a certain quality of living for residents within a development. Table 5-3 specifies development standards for various residential zones. The City periodically evaluates standards in different zones particularly as continuing conflicts with those criteria are identified. As a standard or set of standards are found to be inappropriate, they are re-evaluated and amended to reflect current needs (See Policy [6.4n]). To accommodate the variety of new housing types and include small lot subdivisions and zero lot line developments, the City has used its Planned Residential Development (PRD) provisions (See Policy [6.4h]).

The City has provisions to permit manufactured housing and mobile homes in all of its residential zones. The City added two large mobile home parks to its inventory in 1988. An evaluation of ways to retain existing mobile home parks and encourage new mobile home parks and subdivisions would increase opportunities for this type of housing (See Policy [6.1o]). Redlands has a second unit ordinance that conforms to state law. The City promotes second units (See Policy [6.2o]); however, none were constructed during the last period. The City has implemented the density bonus law for multi-family residential projects in the City to create low-income units. Zero units were applied for using density bonus provisions.

Density Bonus Provisions

The City's density bonus ordinance generally follows the requirements of state law (California Government Code, sections 65915 - 65918). In addition to the minimum requirements of state law, however, the City's density bonus requirements (Chapter 18.228 of the Redlands Municipal Code) provide additional incentives

for producing more dwelling units that are affordable to lower-income households than the minimum state requirements and more dwelling units with a larger number of bedrooms (three or more). Under sections 18.228.030 and 18.228.040 of the Municipal Code, developers can qualify for additional, multiple incentives for providing a larger number of affordable dwelling units. The allowance for additional incentives is intended to supplement the minimum requirements of state law and does not undermine the purpose and intent of the law.

5.1.8 Code Enforcement

The City has two full-time code enforcement officers to conduct a pro-active code enforcement program. The City does have a program for code enforcement in the CDBG target area, where enforcement coupled with available repair programs can result in upgraded housing (See policies [6.5i, 6.5j, 6.5h, 6.5g]).

Within the City's historic neighborhoods Redlands is coordinating the preservation of historic resources with policies designed to preserve affordable housing. Several implementing policies are being included in the General Plan to conserve and expand affordable housing while maintaining the historic structures as follows: [Policy 3.21d - Provide incentives to encourage preservation of large historic structures and conversion to multi-family housing if preservation or original use is an economic hardship]. By creating multi-family units within existing historic structures, affordable housing close to the downtown can be provided. [Policy 3.23g - Encourage the use of tax credits, donated easements, and other fiscal incentives for preservation.] Such fiscal incentives may assist existing low-income households in conserving residential structures, particularly in North Redlands. [Policy 3.23i - Encourage the highest maintenance of historic resources by pursuing funding programs to assist people in doing needed repairs, by requiring code compliance, and by providing information to homeowners as to how to maintain their property, and where to go for assistance and advice.] By assisting in maintenance of historic neighborhoods low income residents can utilize existing housing stock that often meets their needs. [Policy 3.26j - Work toward preventing the displacement of elderly and low-income people from their homes in historic areas. Policy 3.26k - seeks and promotes use of funding resources to establish low-interest loans or grants for rehabilitation in low-income historic neighborhoods and for maintenance of older citrus groves.] By coordinating efforts, low-interest loans for historic preservation can be tied with funds for repair and rehabilitation to assist seniors and low-income residents in maintaining their properties. (See Policies [6.5a, 6.5b, 6.5d, 6.5e, 6.5g, 6.5h, 6.5i, and 6.5j]).

5.1.9 Offsite Improvements

Offsite improvements, including public streets, curbing, sidewalks, street lights, water, sewer, and drainage requirements, have an impact on the cost of residential development. These offsites are either installed by the developer as part of the project or paid as impact fees assessed on larger regional or area wide facilities. Offsite improvements are assessed to determine appropriations based on need. Adjustments and modifications to standard requirements have been granted for PRD's, hillside developments, and rural projects.

Table 5-4
Residential Development Standards

Zone	R-1	R-1-D	R-2	R-2-2000	R-3
Minimum Lot Area	7,200 sf.	8,100 sf.	8,000 sf	12,000 sf	10,000 sf
Minimum Lot Width	60 feet	50 feet	80 feet	100 feet	80 feet
Minimum Lot Depth	100 feet	160 feet	100 feet	120 feet	120 feet
Maximum Height	2-1/2 stories or 35 feet	2-1/2 stories or 35 feet	2-1/2 stories or 35 feet	3 stories	4 stories

Parking Requirements	2 covered space/du	2 covered spaces/du	0-1 bedroom: 1 space 2 bedroom: 1-1/2 spaces 3+ bedrooms: 2 spaces + guest space	0-1 bedroom: 1 space 2 bedroom: 1-1/2 spaces 3+ bedrooms: 2 spaces + guest space	0-1 bedroom: 1 space 2 bedroom: 1-1/2 spaces 3+ bedrooms: 2 spaces + guest space
Maximum Density	6 du/acre	10 du/acre	14 du/acre*	21 du/acre	29 du/acre

* Maximum density may increase to 21 du/acre with CUP.

5.1.10 Design and Preservation Policies

The City has established a number of design and preservation policies to improve the livability of Redlands. To a large extent this involves design and not necessarily additional cost to the developer. Additional time in designing developments will be offset by the quality of the end project. Still, it is recognized that additional time for preparing a project and amenities added to a project to meet the design standards may add to the housing costs. To mitigate these impacts policies to reduce processing time ([Policies 6.4s and 6.4n]), to provide flexible standards ([Policies 6.4n, 6.4h and 6.4e]), and, where possible, increase density of projects ([Policy 6.4c]) have already been adopted to provide for lower-cost housing and to lessen the potential impact caused by design considerations.

5.1.11 Availability of Urban Services

The availability of urban services does not generally constrain housing development in Redlands. Water supply and wastewater disposal capacity are expanded to meet needs using fees collected. Certain areas within Live Oak Canyon and San Timoteo Canyon do not have an available infrastructure to accommodate all development, and major trunk line systems will need to be extended into the canyon areas. However, as discussed in Section 5, there is enough residential-zoned vacant land with services available to meet the City's future housing needs.

5.1.12 Housing for Persons With Disabilities

As noted in the Special Needs section (4.2.5) of the Housing Element, persons with disabilities have a number of housing needs related to accessibility of dwelling units; access to transportation; employment, and commercial services; and alternative living arrangements that include on-site or nearby supportive living services.

The City ensures that new housing developments comply with California building standards (Title 24 of the California Code of Regulations) and federal Americans with Disabilities Act) requirements for accessibility. The City also permits educational, residential, health care, and other supportive services (defined as institutional services in the zoning code) of the type that could benefit persons with disabilities in residential zones. Sites zoned for multi-family use, administrative professional, and City of Redlands C-3 and C-4 Commercial zones, which all permit mixed-use developments, are located along arterial streets and transportation corridors to facilitate access and accessibility for persons with disabilities.

Housing for seniors-only currently exists in Redlands and provides many of the features that meet the needs of persons with disabilities. The City's current development standards permitting mixed-use developments will allow a wide variety of housing types that could meet the needs of, and provide accessibility to services and transportation to, individuals with disabilities.

In light of current planning policies and zoning regulations, the City believes that it has mitigated any potential constraints to the availability of housing for persons with disabilities.

Procedures for Ensuring Reasonable Accommodations

The City of Redlands has established procedures to ensure that reasonable accommodations are made for persons with disabilities. Individuals with disabilities can telephone the City, send an e-mail, write a letter, stop by City offices, or appear at a Planning Commission or City Council meeting to request special accommodation or variance from the requirements of City zoning or building codes due to a disability.

Efforts to Remove Regulatory Constraints for Persons with Disabilities

The State of California has removed City discretion for review of small group home projects (six or fewer residents). The City does not impose additional zoning, building code, or permitting procedures other than those allowed by state law. There are no City-initiated constraints on housing for persons with disabilities caused or controlled by the City.

The City allows residential retrofitting to increase the suitability of homes for persons with disabilities in compliance with ADA requirements. Such retrofitting is permitted under Chapter 11 of the 1998 version of the California Code. The City works with applicants who need special accommodations in their homes to ensure that application of building code requirements does not create a constraint. The City's Zoning Code has been reviewed for Chapter 11 compliance and was found to be compliant.

Information Regarding Accommodation for Zoning, Permit Processing, and Building Codes

The City implements and enforces Chapter 11 of the California Code, which is very similar to ADA. The City provides information to applicants or those inquiring of City regulations regarding accommodations in zoning, permit processes, and application of building codes for persons with disabilities.

Zoning and Other Land Use Regulations

As part of the update of the City Housing Element in 2002, Redlands conducted a comprehensive review of its zoning laws, policies, and practices for compliance with fair housing law. The City has not identified any zoning or other land use regulatory practices that could discriminate against persons with disabilities and impede the availability of such housing for these individuals. Examples of the ways in which the City facilitates housing for persons with disabilities through its regulatory and permitting processes are:

- The City permits group homes of all sizes in all residential and commercial districts subject to a conditional use permit. The City has no authority to approve or deny group homes of six or fewer people, except for compliance with building code requirements, which are governed by the State of California.
- The City does not restrict occupancy of unrelated individuals in group homes.
- The City permits housing for special needs groups, including for individuals with disabilities, without regard to distances between such uses or the number of such uses in any part of the City. The Land Use Element of the General Plan does not restrict the siting of special needs housing.

Permits and Processing

The City does not impose special permit procedures or requirements that could impede the retrofitting of

homes for accessibility. The City's requirements for building permits and inspections are the same as for other residential projects and are fairly simple and straight forward. City officials are not aware of any instances in which an applicant experienced delays or rejection of a retrofitting proposal for accessibility to persons with disabilities.

As discussed above, the City allows group homes of six or fewer persons by right, as required by state law. No conditional use permit or other special permitting requirements apply to such homes. A significant number of group homes operate in the City of Redlands. The City does not impose special requirements on group homes of more than six persons, as these are considered a residential use in any residential zone or administrative professional and commercial zone that allows residential uses.

The City does not impose special occupancy permit requirements for the establishment or retrofitting of structures for residential use by persons with disabilities. If structural improvements are required for a group home, a building permit is required. If a new structure were proposed for a group home use for more than six persons, design review would be required as for any other new residential use with five or more units. To the City's knowledge, its design review process has not been used to deny or substantially modify a housing project for persons with disabilities to the point where it is no longer feasible.

All residential projects of five or more units require design review, which involves a hearing before the Planning Commission and City Council. The hearing process is the same for group homes and special needs housing for persons with disabilities as for other residential projects of five or more units. The City conducts a hearing and accepts written and verbal testimony.

The City's zoning and permit processes also allow for supportive services that are provided on-site, with no additional special conditions. The City's permit process allows conversion of residential structures to include these supportive services as accessory to the primary residential use.

Building Codes

The City provides reasonable accommodation for persons with disabilities in the enforcement of building codes and issuance of building permits through its flexible approaches to retrofitting or converting existing buildings and construction of new buildings that meet the shelter needs of persons with disabilities. The City of Redlands has adopted and implements the 1997 Uniform Building Code (UBC) and the 1998 California Code, which incorporates the 1997 UBC. Should the State of California adopt the 2000 International Building Code, Redlands will implement the provisions of that code. Until that time, the 1997UBC/1998 California Code will be the applicable code the City is required to enforce under state law.

Universal Design Element

The City has not adopted a universal design ordinance governing construction or modification of homes using design principles that allow individuals to remain in those homes as their physical needs and capabilities change. A bill pending before the Legislature, AB 2787, would require HCD to develop guidelines and a model ordinance consistent with the principles of universal design. Rather than attempt to reinvent the wheel, Redlands will consider a model ordinance prepared by the State of California before adopting its own ordinance.

5.2 NON-GOVERNMENTAL CONSTRAINTS

The ability to fulfill local housing need is primarily a factor of housing market conditions beyond the City's control, such as: construction, land, and financing costs; market trends; and economic conditions. The City's primary role as facilitator and regulator can affect the housing market on the fringes, but will not be the primary driving force that determines how many, and what types, of housing units are constructed.

5.2.1 The Local Housing Market

Discussions with local housing developers reveal that Redlands is primarily viewed as a moderate to move-up market for housing (compared to neighboring San Bernardino which is viewed primarily as an entry-level community). Redlands, as other Inland Empire communities, has experienced an influx of workers from neighboring Los Angeles and Orange Counties in search of moderately-priced housing. This has increased housing demand and costs in some western portions of the County, including Redlands. Thus, while housing costs in Redlands are higher than in some other nearby communities, they are substantially less than in most Orange County and Los Angeles County communities of similar character.

The City's reputation as a moderate to move-up housing market means that home builders will likely offer housing products aimed primarily at households in the upper-moderate and above-moderate income ranges (households earning more than the median income). This housing market orientation affects land costs by increasing the value of residential lands compared to communities more oriented to the entry-level market.

While the City has little control over market perceptions and orientation, it can affect how that orientation is translated into housing products through its efforts to encourage the construction of affordable housing and to provide a regulatory climate to support that effort.

5.2.2 Land and Development Costs

Land prices and construction costs are the most important factors affecting housing development. According to local real estate and development professionals, land for conventional single-family homes averages from \$50,000 to over \$100,000 per acre, depending on the zoning category and the improvements already in place. Multi-family land, depending on location and allowed density, can cost \$150,000 to \$200,000 per acre. Two residential sites for sale recently in Redlands, one a single-family site and one a multi-family property (zoned R-2) had asking prices of \$104,000 and \$175,000 per acre respectively (Source: LoopNet, Inc. web site). Several commercial parcels recently for sale had asking prices ranging from \$70,000 to \$158,000 per acre. Retail commercial sites ranged from \$69,000 per acre in Victorville, to \$672,000 per acre in the City of San Bernardino, to \$1,142,857 per acre in Rancho Cucamonga.

By comparison, raw land in San Bernardino County for single-family homes averages around \$40,000 per acre, without improvements. One single-family parcel in the City of San Bernardino, 30 acres in size, was recently for sale for \$33,000 per acre (Source: LoopNet, Inc. web site). Prices for single-family residential land ranges from \$26,563 per acre in Rancho Cucamonga to \$144,444 in Fontana to \$145,000 per acre in Yucaipa. Two multi-family parcels in the City of San Bernardino, one just over three acres and the other just under one acre, were recently for sale for approximately \$136,000 and \$110,000 per acre. The higher priced multi-family parcel was zoned for 18 units per acre and the lower cost parcel R-2. By comparison, several industrial parcels recently for sale in the County had asking prices ranging from \$44,000 to \$348,000 per acre, and one retail commercial site with freeway access had an asking price of \$676,000 per acre.

Permit and development fees, including school, utilities, fire, water, and sewage services, typically add \$15,000 to \$30,000 per unit to the cost of a dwelling unit, depending on the type and density of housing development. For a single-family development, these costs are typically in the low- to mid-\$20,000 range per unit. For multi-family housing, these costs are typically in the \$15,000 to \$17,000 range per unit. Marketing and soft costs, such as architecture, engineering, and other professional services, can add \$10,000 to \$15,000 per unit (again, depending on the type of housing). Other expenses, including administration and sales averages \$8,000 to \$10,000 per unit. Materials and labor range from \$40 to \$50 per square foot for standard construction. Therefore, a standard, non-custom home of 2,000 square feet (the average size new home in Redlands without upgrades) would cost a home builder from \$130,000 (for a townhome at 20 units per acre) to \$175,000 (for a single-family home at 4 to 6 units per acre).

The actual sales price of this standard tract home will depend on market conditions that allow the home builder to charge a higher or lower percentage above the cost. Recent homes sales of single-family homes and townhomes from 1,500 to over 2,000 square feet have ranged from approximately \$157,000 to \$222,000 in price.

The cost to construct a rental apartment, given the same assumptions as above (standard construction, no upgrades), would range from about \$70,000 to \$85,000 per unit, depending on the size, number of bedrooms, and number of rental units per acre. To cover this cost, in consideration of current borrowing, maintenance, and capital expenses (excluding owner's profit), would require a monthly rent of between \$600 and \$650 for a one-bedroom unit and between \$750 and \$800 per month for a three-bedroom unit. Actual rents for new apartments would be higher to allow for owner profit.

5.2.3 Interest Costs

The cost of borrowing money can present a constraint to both the producer and consumer of housing. Higher interest rates increase the cost of doing business for land developers and homebuilders. Higher interest rates also increase the consumer's cost of borrowing money for home loans. Tables 5-4 and 5-5 show how changes in interest rates affect borrowing costs, and impact the finished cost per unit, of housing.

Table 5-5 shows that each 1 percentage point increase in the interest rate increases borrowing costs by about 6 percent for a 15-year home loan—nearly 20 percent if the increase is from seven to 10 percentage points. For a 30-year loan, each 1 percentage point increases the monthly payment nine to 10 percent—nearly 32 percent if the increase is from seven to 10 percentage points. Even small increases to home loan interest rates can substantially affect monthly housing costs and reduce its affordability to low- and moderate-income households.

Many consumers mitigate the impact of rising interest rates by purchasing adjustable rate mortgages that typically begin with substantially lower introductory rates. Adjustable rate mortgages allow a borrower's interest cost, and monthly payment, to rise or fall with market rates. In a rising interest rate climate, adjustable rate mortgages can offer substantial short-term savings over a fixed-rate loan. In a declining or highly volatile interest rate climate, adjustable rate mortgages can lead to higher short-term costs.

Table 5-5
Impact of Interest Rates on Consumer Borrowing Costs on Monthly Payment

Loan Amount	Monthly Payment on a 15-Year Loan				Monthly Payment on a 30-Year Loan			
	7%	8%	9%	10%	7%	8%	9%	10%
\$75,000	\$674	\$716	\$762	\$806	\$499	\$550	\$603	\$658
\$100,000	\$899	\$955	\$1,014	\$1,074	\$665	\$733	\$804	\$877
\$125,000	\$1,123	\$1,193	\$1,268	\$1,343	\$832	\$917	\$1,005	\$1,097
\$150,000	\$1,348	\$1,432	\$1,524	\$1,612	\$998	\$1,100	\$1,206	\$1,316
\$175,000	\$1,572	\$1,671	\$1,776	\$1,881	\$1,164	\$1,283	\$1,407	\$1,535
\$200,000	\$1,797	\$1,909	\$2,029	\$2,149	\$1,331	\$1,467	\$1,608	\$1,755
\$225,000	\$2,022	\$2,148	\$2,285	\$2,418	\$1,497	\$1,650	\$1,809	\$1,974
\$250,000	\$2,247	\$2,387	\$2,537	\$2,687	\$1,663	\$1,833	\$2,010	\$2,193

Source: Parsons HBA

An increase in borrowing costs affects the cost of providing rental housing in two ways: 1) construction costs rise (most residential development is financed, at least in part, through construction loans), and 2) permanent borrowing costs increase.

Table 5-6 shows the impact of changes in loan rates on the monthly rent for a hypothetical apartment project—one that is privately financed and that receives state and/or federal funds. In the examples in Table 5-5, three per-unit project costs are assumed: 1) a small apartment complex with minimal amenities that costs \$55,000 per unit to construct, 2) a medium quality apartment complex with average amenities that costs \$65,000 per unit to construct, and 3) a luxury apartment complex that costs \$75,000 per unit to construct. In each case the properties include a mix of one- and two-bedroom apartments. These examples assume that 75 percent of the project is financed at a commercial lending rate for a term of 15 years.

Table 5-6
Impact of Interest Rates on Commercial Borrowing Costs (Monthly Loan Cost Per Unit)

Per Unit Loan Amount	Monthly Loan Cost Per Unit			
	8%	9%	10%	11%
\$41,000	\$392	\$416	\$441	\$466
\$49,000	\$468	\$497	\$527	\$557
\$56,000	\$535	\$568	\$602	\$636

Source: Parsons HBA

A three percentage point increase in interest rates for permanent financing, from 8 percent to 11 percent, will increase the per unit borrowing cost by nearly 19 percent and the overall per unit cost (accounting for operation and maintenance expenses) by about 10 percent.

5.3 HOUSING PRODUCTION COMPARED TO GOALS (1995-2000) - EVALUATION OF PROGRAMS

Table 5-7 shows program goals and actual production for the 1995 Housing Element. Of the very-low and low-income unit goal, 131 single family units were built. Seven hundred and seventy senior congregate care units were built or approved. The major impediment to meeting the goals was the general lack of economic activity until the last two years. In total, the City added only 179 residential units between 1995 and 1999.

Several programs were reasonably successful, especially those aimed at rehabilitation and first time home buyers. The City's Great Neighborhoods (112 rehab loans approved for 54 very low-income, 36 low-income, and 21 moderate-income households) and First Time Home Buyers (65 total approved, two for very low-income, 20 for low-income, and 43 for moderate-income households) programs have been very successful.

Producing new units was problematic during this period for the economic reasons mentioned, but HUD and redevelopment set-aside funds helped provide 104 very low-income senior units (Casa de la Vista and Fern Lodge); HOME and redevelopment funds helped provide 100 multi-family units, 48 of them for very low-income households.

In the last two years the market has produced numerous unsubsidized congregate care developments primarily for seniors. There are five constructed projects totaling a 789 bed and unit mixture (Plymouth

Village 265 bed/unit mixture, Braswell's Care Facilities 321 beds, Country Club Manor 6 units, Mission Commons 141 units, and Somerford Place 56 beds), one project under construction (Creekside 192 beds), and three others which will begin construction shortly. There will be over 980 senior units in Redlands. In addition, Federal and redevelopment funds will assist in the approved construction of the 370-unit Mountain View Acres senior assisted living project and two church-sponsored units for senior-handicapped. The large senior population in Redlands draws other seniors, and providing for some subsidized senior units is beneficial.

While not adding any units, the City has retained 217 of 219 assisted at-risk units, 233 public housing units, and 140 mobile home units. The City also has a total of 47 community care facilities for the elderly, developmentally disabled, and others, with a total of 857 beds.

Programs either not completed or not successful in producing units included the density bonus program, single-room occupancy housing, second units, and various studies and code amendments. A new density bonus ordinance was adopted but likely will produce few units unless there is another spurt in multi-family unit development. For example, 117 units were produced under general density bonus provisions between 1985 and 1995. The staff also completed revisions to the application process to allow for fast tracking of applications and to otherwise smooth the process to save applicants time and money. The studies and code amendments not completed were not crucial programs, and the major reason for not completing them was the work load and level of staffing of the Community Development Department. The initiatives proposed by the voters over the last decade have put considerable pressure on the staff who were required to prepare studies and other work related to them.

One program that was largely unsuccessful was the annexation of unincorporated territory that would have added over 1,000 units to the City. This program was proposed by the City but largely outside of its control. Although several annexations were discussed and the City took the initiative to encourage them, they did not proceed due to decisions by the property owners and the Local Agency Formation Commission. One annexation that did bring land and a low-income unit project into the City was the Mountain View Acres annexation, which included a new 370-bed plus 30 cottage senior assisted-living development.

Even though some of the City's programs were not used extensively during the past five years, Redlands believes that these programs should be continued because they provide a "menu" of program options that are available to the development community to meet the City's housing needs and will be used as appropriate. Redlands has chosen to maintain maximum flexibility in assisting the development community by providing as broad a selection of program options as possible. The precise mix of programs that the City uses for a specific development proposal will depend on the characteristics of the proposal and the needs of the project. The City cannot predict in advance of receiving development proposals which programs will be the most appropriate for a specific project. For this reason, it is possible that one or more programs the City has chosen to continue in the updated Housing Element may not be used between 2000 and 2005.

The City's achievement of its goals under the previous Housing Element was greatly affected by economic events that occurred during the early 1990s. The City experienced a boom in multifamily rental housing construction during the late 1980s as the housing demand from Norton Air Force Base (located near Redlands) and general growth pressures was high. After 1990, however, the closure of Norton Air Force base, the loss of related industries in the area, and general economic conditions caused the demand for new multifamily housing to plummet. Vacancy rates increased dramatically with the loss of jobs and military personnel. As a result, between the early 1990s and 2000, there was no new market-rate rental housing constructed in Redlands with the exception of Fern Lodge, a City assisted 62 unit senior apartment complex.

Table 5-7
Program Evaluation - Redlands Housing Goals and Production
1995-2000

Program	Responsible Agency	Funding	Goal 1995-2000	Achieved 1995-2000	Affected Income Group
Density Bonus for Affordable Housing, Large Households, & Seniors	Community Development Dept. (Com. Dev.)	City	Revise ord. 140 units	0 units; Ordinance amendment to establish program in process	Very Low Low Moderate
Non-profit Housing Providers-- Senior Housing	Non-Profit Agency/Com. Dev.	HUD, Redev.	42 units	42 Casa de la Vista; 62 Fern Lodge	Very Low Seniors
Redevelopment Low- and Moderate-Income Housing Funds Programs: 1. Great Neighborhoods 2. First Time Home Buyers 3. Multi-family Rehab. 4. Mobile Home Assistance 5. Developer Assistance	Redevelopment	City tax increments	These programs were added after the 1995 Housing Element was adopted.	1. 112 rehab. units 2. 65 FTHB (10 new units; 3 = low, 7 = moderate) 3. 23 multi-family rehab. units 4. 2 mobile rehab units 5. 6 Habitat for Humanity new very low-income units.	Very Low Low Moderate
Mortgage Revenue Bonds	San Bernardino County (S.B. Co.)	Bond proceeds City; Federal; State	3 multi-family projects--average 60 du/ea (35 very-low)	0 units built	Very Low
Mortgage Credit Certificates	Com. Dev.; S.B. County	City	Determine feasibility	Not done. San Bernardino County does not use.	Very Low Low Moderate
(HUD) HOME Investment Partnership Program for Multi-family Rehab.	S.B. County; Com. Dev.; non-profits	HOME; City Redev.	35 units	Housing Partners 18 units; So. Cal. Housing 88 units (36 very low); Housing Authority 4 units	Very Low Low Moderate

Table 5-7
Program Evaluation - Redlands Housing Goals and Production
1995-2000

Program	Responsible Agency	Funding	Goal 1995-2000	Achieved 1995-2000	Affected Income Group
Low Income Housing Tax Credits	Com. Dev.	City	Determine feasibility	Not done	Low
Buy-out Assistance for HUD-financed Projects (At-risk units)	Com. Dev.	City; grants	219 units	61 Citrus Arms renting year-to-year; 158 Brookside--lost 2-3	Very low Low
Public Housing	S.B. County Housing Authority	HUD	Locate sites & funding	Continued; (225 mf units, 8 sf units existing)	Very Low Low
Mobile Homes Regulations	Com. Dev.	City	140 units. Adopt regs. to retain & encourage new units.	All parks retained; no new regulations adopted.	Low Moderate
Mobile Home Rent Control	City Mobile Home Rent Control Board	City	Continue	Continued	Moderate
Limited Equity Co-Op Program	City	City	Continue	Continued	Above Moderate
Self-Help Housing	Com. Dev.	City	10 units Revise ordinances.	Not done	All
CDBG Program	City	CDBG	Funds	Public Service funding (See Emergency Shelter + Inland Mediation)	Very low Low
Housing Referral & Placement Program	Com. Dev.; non-profits	City	Work with non-profit to establish program.	Emergency funds; jobs & info.	Very Low Seniors

Table 5-7
Program Evaluation - Redlands Housing Goals and Production
1995-2000

Program	Responsible Agency	Funding	Goal 1995-2000	Achieved 1995-2000	Affected Income Group
Half-way House for Disabled Persons	Com. Dev.; non-profits	City; non-profits	1-2 sites	Included in Com. Care Facilities--no count	Disabled
Day Care in PRDs (density bonus ordinance)	Com. Dev.	City	3 facilities	Ordinance amendment to establish in process	All
Federal Funding for Low-Income Senior & Handicapped Housing	Com. Dev.; Redev.; non-profits	City; grants	Assist non-profits to get Federal funds	Mt. View Acres 370 units + 30 cottages (11 new : 6 very low- and 5 low-income units; Christian Academy (senior handicap duplex) 4 beds	Low Senior Handicapped
Second Dwelling Unit Ordinance for Seniors & Handicapped	Com. Dev.	City	14 units	Maintained ord.; no units built under ord.	Seniors Handicapped
Congregate Housing (encourage & review ordinances)	Com. Dev.	None	245 units Ensure ordinances do not hinder	Under construction: Brookside--56; Brentwood--192 (42 first phase) Approved: Regent--140; Amer. Bap.--12. Being processed: Marriott--113. Total = 513	Seniors Handicapped Low
Single-Room Occupancy Housing (encourage)	Com. Dev.	City; loans; forgive fees	35 units Identify sites	0 units	Very low

Table 5-7
Program Evaluation - Redlands Housing Goals and Production
1995-2000

Program	Responsible Agency	Funding	Goal 1995-2000	Achieved 1995-2000	Affected Income Group
Emergency Shelter Services & Transitional Housing (designate sites, assist with grants)	Com. Dev.; Redlands Family Services; United Way; other non-profits	City; loans; incentives; CDBG	Designate sites; assist with grants & loans	Done; on-going. San Bernardino County provided \$258,200 to providers.	Homeless
Permanent Housing for Handicapped, Homeless (PIII)	Com. Dev.; non-profits	City	Contact agencies, determine feasibility	0 units.	Handicapped Homeless
First- & Last-Month Rent Loan Program	S.B. Co.; Com. Dev.	Loans/Co. CDBG	Establish loan guidelines, procedures	Not done. San Bernardino County 65.	Very low
Congregate Housing (amend Zoning Ord.)	Com. Dev.	City	Establish standards in Medium Density areas	No new standards; have policy formula for beds/population	All
Single Room Occupancy Housing (amend Zoning Ord.)	Com. Dev.	City	Establish standards	Not done	Very low
Emergency Shelter & Transitional Housing Sites	Com. Dev.	City	Establish standards	Not done; allowed in Downtown S.P.	Homeless
Create New Multiple Family Residential Zoning to Accommodate Medium & High Density Residential General Plan Designations	Com. Dev.	City	Prepare ord.	Not done; R-3 allows 27 du/ac	All
Annexation of County Sphere Area	City; LAFCO; property owners	City	150 units/year Assist in proceedings	400 new units annexed-counted elsewhere	All
Amend Zoning Ordinance (to allow up to 27 units/ac)	Com. Dev.	City	Prepare ord.	R-3 allows up to 29/ac	All

Table 5-7
Program Evaluation - Redlands Housing Goals and Production
1995-2000

Program	Responsible Agency	Funding	Goal 1995-2000	Achieved 1995-2000	Affected Income Group
Revise Criteria under Municipal Code to Assist Low Income Households	Com. Dev.	City	Prepare ord.	Not done	Low
Development Fees	City	City	Evaluate; continue procedure	Continued	Low Seniors
Participate in Establishment of Building Code	Com. Dev.	City	Participate in UBC updates	Done	All
One-Stop Permit Processing	Com. Dev.	None	Continue & improve	Continued; Amended to include prelim. review	All
Planned Residential Development	City	None	Maintain current ordinance to allow flexibility	Maintained; Amended ord. to remove minimum lot size	Above Moderate
Mixed Use Zoning	Com. Dev.	None	Continue & provide incentives in Downtown S.P.	Continued; No amendments for incentives	Moderate Above Moderate
Expand Urban Services	Public Works; Municipal Utilities; Com. Dev.	City; inspection fees	Initiate planning for San Timoteo & Live Oak Canyon areas	Deleted requirement for urban services; San Timoteo & Live Oak Canyon req. election	All
Mitigate Finance Costs for Low-Income Projects	Com. Dev.	City	Continue	Continued	Low
Maintain a Large Supply of Available Sites to Maintain Competitive Land Costs	City	City	Adopt General Plan & amend zoning	Done	All

Table 5-7
Program Evaluation - Redlands Housing Goals and Production
1995-2000

Program	Responsible Agency	Funding	Goal 1995-2000	Achieved 1995-2000	Affected Income Group
Establish Fast-Track Development Process	Com. Dev.	City	Formalize process	Established	All
Evaluate & Revise Zoning Standards	Com. Dev.	City	Continue	Continued; on-going	All
Evaluate & Revise Off-site Improvement Standards	Public Works	City	Continue; Evaluate & amend	Continued; on-going	All
Adaptive Reuse of Single-family Homes	Com. Dev.	City	Prepare ordinances	Not done; already allowed	All
Condominium Conversion Ordinance	Com. Dev.	City	Continue	Continued; No applications	Moderate
Senior & Handicapped Housing Grants	S.B. Co.	Co. CDBG	100 units; Continue program	57 units.	Senior Handicapped Low (46), Moderate (11)
CDBG Rehabilitation Loan Program	S.B. Co.	Co. CDBG	30 units; Continue & publicize	16 units	Low Moderate
Rental Rehabilitation Program --single-family homes	S.B. Co.	Co. CDBG	30 units; Continue program	8 units	Very low Low
Outreach Program for Rehabilitation & Repair Programs	Redev.	City; S.B. County	Develop & initiate outreach	Done; community meetings & door-to-door; on-going	All

Table 5-7
Program Evaluation - Redlands Housing Goals and Production
1995-2000

Program	Responsible Agency	Funding	Goal 1995-2000	Achieved 1995-2000	Affected Income Group
Fair Housing Counseling	Inland Mediation Board; City	CDBG	Continue	Continued	All
Residential Energy Conservation Design Standards	Com. Dev.	City	Revise standards	Not done	All
Subdivision Ordinance (lot orientation & design for passive solar, solar access, street widths, tree planting)	Com. Dev.	City	Revise ord.	Not done	All
Land Use Patterns & Densities	Com. Dev.	City	Consult with Omnitrans	Done	All
Neighborhood Services	Com. Dev.	None	Amend Zoning Ord. to implement Land Use Element	Done; Zone Change A-1 to C-2	All
New Program (added 1999): Neighborhood Initiative Program (Purchase, rehab + resell)	S.B. Co.; Redev. & non-profits	HUD	Purchase HUD repos, non-profits rehab. + sell	40 houses in escrow	Low Moderate
Local Initiative	S.B. Co.; Redev.	HUD (\$2 mil.)	Public works improve- ments, Great Neighbor- hoods, FTHB, multi- family rehab., demo- lition, Target area.		

Table 5-7

**Program Evaluation - Redlands Housing Goals and Production
1995-2000**

Program	Responsible Agency	Funding	Goal 1995-2000	Achieved 1995-2000	Affected Income Group
Community Care Facilities existing (1998)				Number projects/Number population	
DSS licensed				35 / 785	
DHS licensed				12 / 72	
Total				47 / 857	
Total: Very Low- and Low-Income Units:				24 (Built and approved)	
Rehabilitated				318	
Conserved				217	
New Congregate Care units				908 (Senior	

Source: Redlands Community Development Department

5.4 LAND AVAILABLE FOR HOUSING

Table 5-8 identifies by traffic analysis zones potential housing sites as permitted by the General Plan. The evaluation of sites did not cover projects of a certain size and did not consider reuse of existing parcels. The analysis concentrated on vacant land.

Table 5-8
Vacant Housing Sites

Residential TAZ	Units			Residential TAZ	Units		
	LD	MD	HD		LD	MD	HD
5	262			42	0	0	248
6	319**			43	0	0	24
7	160			45	0	0	192
8	583*			46	0	0	0
9	183	109	0	47	27	0	0
10	9	200	83	48	6	0	0
11	21	0	0	49	29	0	0
21	0	172	0	50	13	0	0
22	6	0	0	51	50	0	0
23	4	50	0	52	176	0	0
25	0	0	128	53	184	0	0
26	25	0	0	54	257	0	0
27	36	0	0	55	87	0	0
28	78	0	0	56	426	0	0
29	232	0	0	57	42	0	0
30	79	71	0	58	100	20	0
31	0	19	0	59	273	0	0
32	0	10	0	69	23	0	48
33	0	0	212	70	100	0	0
34-38	0	0	0	71	0	0	42
39	0	386	0	72	0	0	91
				City Subtotal	3,790	1,037	1,068

Table 5-8
Vacant Housing Sites

County							
Residential TAZ	Units			Residential TAZ	Units		
	LD	MD	HD		LD	MD	HD
60	686	0	0	65	315	177	0
61	110	0	0	66	118	0	0
62	158	0	0	67	389	0	0
63	252	0	0	73	109	0	0
County Subtotal					2,137	177	0
Totals							
City Subtotal	3,790	1,074	1,068	*2.6 sample is Curtis development ** 3.1 Gardner Tract, north of Pioneer			
County Subtotal	2,137	177	0				
Grand Total	5,927	1,214	1,068				

Source: Redlands Community Development Department

Table 5-9
Multi-family Development Potential by Traffic Analysis Zone

Residential TAZ	Parcel Acreage	G. P. Category	Zoning/Status	Estimated Units	Actions Needed
9	A. 4.33 acres	MDR	R-2 zone@13 du/acre/Vacant	56	
	B. 4.10 acres	MDR	R-2 zone@13 du/acre/Vacant	53	
			TOTAL	109	
10	A. 9.5 acres	MDR	R-2 zone@13 du/acre/Vacant	123	
	B. 3.21 acres	MDR	R-2 zone@13 du/acre/Vacant	42	
	C. 2.73 acres	MDR	R-2 zone@13 du/acre/Vacant	35	
			TOTAL	200	

Residential TAZ	Parcel Acreage	G. P. Category	Zoning/Status	Estimated Units	Actions Needed
	D. 3.97 acres	HDR	R-2 zone@21 du/acre/Vacant	83	need CUP
			TOTAL	83	
21	A. 4.75 acres	MDR	A-1 zone@13 du/acre/Vacant	62	need ZC
	B. 4.4 acres	MDR	R-1 zone@13 du/acre/2 SFR ¹	57	need ZC
	C. 4.12 acres	MDR	R-1 zone@13 du/acre/Vacant	53	need ZC
			TOTAL	172	
23	A. 2.61 acres	MDR	R-2 zone@13 du/acre/Vacant	34	
	B. .65 acres	MDR	R-2 zone@13 du/acre/Vacant	8	
	C. .66 acres	MDR	R-2 zone@13 du/acre/Vacant	8	
			TOTAL	50	
25	A. 2.52 acres	HDR	R-2 zone@21 du/acre/Vacant	53	need CUP
	B. 2.35 acres	HDR	R-2 zone@21 du/acre/Vacant	49	need CUP
	C. 1.26 acres	HDR	R-2 zone@21 du/acre/Vacant	26	need CUP
			TOTAL	128	
30	A. 2.60 acres	MDR	R-S zone@13 du/acre/Vacant	33	need ZC
	B. 2.92 acres	MDR	R-S zone@13 du/acre/Vacant	38	need ZC
			TOTAL	71	
31	A. 1.49 acres	MDR	R-2 zone@13 du/acre/Vacant	19	
			TOTAL	19	
32	A. .35 acres	MDR	A-P zone@13 du/acre/Vacant	4	

¹SFR - Single Family Residence

Residential TAZ	Parcel Acreage	G. P. Category	Zoning/Status	Estimated Units	Actions Needed
	B. .17 acres	MDR	A-P zone@13 du/acre/Vacant	2	
	C. .31 acres	MDR	R-2 zone@13 du/acre/Vacant	4	
			TOTAL	10	
33	A. 8.48 acres	HDR	TC zone@21 du/acre/Vacant	178	
	B. 1.63 acres	HDR	TC zone@21 du/acre/Vacant	34	
			TOTAL	212	
39	A. 8.8 acres	MDR	EV-3000 zone@10 du/acre/ Under Construction	88	
	B. 4.43 acres	MDR	EV-3000 zone@10 du/acre/ Vacant	44	
	C. 4.7 acres	MDR	EV-3000 zone@10 du/acre/ 1SFR	47	
	D. 8.8 acres	MDR	EV-3000 zone@10 du/acre/ 1 SFR	88	
	E. 5.93 acres	MDR	EV-2500 zone@13 du/acre/ 2 SFR	77	
	F. 4.20 acres	MDR	EV-2000 zone@10 du/acre/ 1 SFR	42	
			TOTAL	386	
42	A. 6.32 acres	HDR	EV-2500 zone@13.4 du/acre/ Vacant	85	
	B. 4.26 acres	HDR	EV-2500 zone@15 du/acre/ Vacant	63	
	C. 4.80 acres	HDR	R-2 zone@21 du/acre/1 SFR	100	need CUP
			TOTAL	248	
43	A. 1.15 acres	HDR	R-2 zone@21 du/acre/Vacant	24	need CUP
			TOTAL	24	
45	A. 3.89 acres	HDR	R-2-2000 zone@21 du/acre/ Vacant	81	

Residential TAZ	Parcel Acreage	G. P. Category	Zoning/Status	Estimated Units	Actions Needed
	B. 5.279 acres	HDR	R-2 zone@21 du/acre/Vacant	111	need CUP
			TOTAL	192	
58	A. 4.50 acres	MDR	Specific Plan 23 Vacant	20	
			TOTAL	20	
69	A. 2.32 acres	HDR	R-2 zone@21 du/acre/Vacant	48	need CUP
			TOTAL	48	
71	A. 2.0 acres	HDR	R-2 zone@21 du/acre/Vacant	42	need CUP
			TOTAL	42	
72	A. 3.14 acres	HDR	R-2 zone@21 du/acre/Vacant	65	need CUP
	B. 1.22 acres	HDR	R-2 zone@21 du/acre/1 SFR	26	need CUP
			TOTAL	91	
65 (County)	A. 2.90 acres	LMD	RM zone@7 du/acre/1 SFR	20	
	B. 12.33 acres	LMD	RM zone@7 du/acre/1 SFR	86	
	C. 1.53 acres	LMD	RM zone@7 du/acre/1 SFR	10	
	D. 8.74 acres	LMD	RM zone@7 du/acre/1 SFR	61	
			TOTAL	177	

NOTE: The allowable densities referenced above are less than the maximum density permitted by the General Plan; however, they are estimates of what may be reasonably expected for the subject parcel.

MDR - Medium Density Residential

HDR - High Density Residential

LMD - Low Medium Density Residential

Table 5-10**Housing Need by Income Category SCAG Allocation and Available Housing Sites in the City and Sphere of Influence**

Category	Housing Need 1998-2005	Estimate Units (Based on Table 5-8)
Very Low Income	353	534
Low Income	289	784
Moderate Income	388	3,957
Above-Moderate Income	901	2,934
Total	1,931	8,209

5.5 ZONE CLASSIFICATIONS BY GENERAL PLAN LAND USE CATEGORY

Within each General Plan land use designation there are one or more zoning classifications. Each zoning classification has a minimum lot size and other specific standards pertaining to that zone. Each of the zones are subject to the state's density bonus rules. Each of the designations that will permit residential development are summarized below.

Rural Living - The Rural Living category designates up to 0.4 units per gross acre (1 unit per 2.5 gross acres) in slopes under 15 percent and 0.2 units per gross acre (1 unit per 5 gross acres) on slopes of 15 to 30 percent. The intent of this land use category is to retain sufficient open area to preserve natural features of the area and/or encourage agricultural use of the majority of each parcel. The assumed average density is 1 unit per 5 gross acres.

A new RL zone will be created for this land use classification. It will feature provisions for lots that are a minimum of 2.5 acres in size and allow for rural public improvements.

Very Low Density - The Very Low Density category designates from 0 to 2.7 units per gross acre on slopes under 15 percent. On slopes of 15 to 30 percent the maximum density is 0.4 units per gross acre (one unit per 2.5 acres). On areas with slopes over 30 percent, the maximum density is 0.2 units per acre. Smaller infill lots which are consistent with the prevailing development pattern may be approved. The intent of this land use category is to encourage limited, low-density residential development. General Plan policies encourage the retention of natural hillside areas and minimize grading and vegetation removal. The assumed average density is 1 unit per acre.

The R-R - Rural Residential, RRA - Rural Animals District, R-A Residential Estate, RAA - Residential Estate Animals District, and RE - Residential Estate District are permitted in this land use classification. The R-R and RRA have a minimum size lot of 1 acre. The RA and RAA have a minimum lot size of 20,000 square feet. The RE zone district has a main lot size of 14,000 square feet. The average density of an RE development is 2.7 units per acre although by using the PRD provision the density could be as high as 3 units per acre (net developable area).

Low Density - The Low Density category designates from 0 to 6.0 units per gross acre. This category is not intended to be applied in areas where slopes exceed 15 percent. The intent of this land use category is to provide for areas of single family residential developments. The General Plan provides a wide range of densities to encourage development appropriate to the site.

The Low Density designation includes the R-S Suburban Residential and R-1 Single Family Residential Districts. The RS zone has a minimum lot size of 10,000 square feet, and the R-1 zone has a minimum lot size of 7,200 square feet. Average densities for R-S developments are approximately 4.3 units per acre and for R-1 developments are approximately 6 units per acre.

Low Medium Density - The Low Medium Density category designates from 0 to 8 units per gross acre plus allows a State-mandated density bonus when a percentage of the units are reserved for low-income households or senior citizens. The intent of this land use category is to provide for a continuation of the land uses at densities compatible with existing development in the Mentone area and in the vicinity of the University of Redlands. The assumed average density for new development is 7 units per gross acre. The Low Medium Density includes the R-1-D, Single Family District and zoning within the County Mentone area. The R-1-D has a minimum lot size of 8,000 and a density of four thousand square feet of lot area per dwelling.

Medium Density - The Medium Density Category designates from 0 to 15 units per gross acre plus allows a State-mandated density bonus when a percentage of the units are reserved for low-income households or senior citizens. The intent of the Medium Density land use category is to provide areas for the development of attached, detached and/or mixed residential uses with a range of densities and housing types. At the upper end of the range, apartments would occupy about 85 percent of the gross area of a site creating a density of 17.6 units per net acre. Single-family attached units typically would be in the 6 to 8 units per gross acre range. The Medium Density land use category in the Mentone Area is to reflect a density of 6 to 8 units per gross acre. Many existing mobile home parks are in the Medium Density range. The assumed average density for new development is 12.0 units per gross acre.

The Medium Density land use category includes the R-2 Multiple-family Residential District. The R-2 zone has a minimum lot size of 8,000 square feet and permits a density of 14.5 units per net acre. In most areas of the City, R-2 developments have had a density of 13 units per acre.

High Density - The High Density category designates from 0 to 27 units per gross acre plus allows a State-mandated density bonus when a percentage of the units are reserved for low-income households or senior citizens. The intent of the High Density land use category is to provide for the development of attached, detached and/or mixed residential uses with a range of densities and housing types.

The High Density classification will allow projects to develop from 0 to 27 units per acre. The R-2, Multiple-family Residential District, the R-2-2000 Multiple-family Residential District, the R-3 Multiple Family Residential Districts as well as the AP Administrative and Professional Office District, and T.C., Town Center District (Specific Plan 45), will allow for residential densities in this land use classification. The R-2 zone allows up to a density of 3,000 square feet of lot area per dwelling, approximately 14 units per acre with a CUP; the R-2-2000 zone allows up to a density of 2,500 square feet of lot area per dwelling, approximately 21 units per acre; the R-3 zone allows a density of 1,500 square feet of lot area per dwelling unit, approximately 29 units per net acre; and the AP and T.C. zones allow up to 29 units per net acre.

Resource Preservation Zone - The Resource Preservation Zone contains areas of over 30 percent slope and limits density due to slope instability and other related safety and environmental hazards that may arise if hillside areas are heavily developed. These are areas possessing a unique character and fragile ecology, including prime resources for water conservation, wildlife preservation, open space recreation, and

agriculture. Since these areas contain valuable resources that are essential to the health, safety, and welfare of the community, residential uses are permitted only under a limited density in order to preserve the character and ecology of the land, as well as for human safety due to slope and other related geologic factors.

Permitted densities correlate directly with the slope of the property, and are as follows:

Slope:	Acres/Dwelling Unit
0 to 15%	1.0 acre
>15 to 30%	2.5 acres
>30%	10.0 to 5.0 acres (40% slope = 10.0 acres; 30-40% slope = 5.0 acres)

Areas with significant slope constrain housing development by reducing the number of units per acre, which also forces the cost of the land to increase. Not only do hillside areas hinder development of high density housing, they also discourage low-income housing as the cost of large parcels and land improvements increases. Since hillside slopes result in such low density development, and geologically constrains new development, most of the hillside areas are zoned A-1 for agricultural use. However, the City recently approved 23 units within a 110-acre specific plan, providing some new housing development in this limited area.

5.6 ACTIONS NEEDED TO HAVE ADEQUATE HOUSING SITES

As shown in Tables 5-8, 5-9, and 5-10, there are more than adequate sites available to accommodate the projected Housing Needs for the City of Redlands. In Table 5-8, an analysis of all vacant land or land that may be underutilized with the presence of an existing single family residence show that there is a potential for 8,246 dwelling units in the City and it's sphere of influence at build-out. Of these, 2,282 units are available for multi-family development.

Table 5-9 provides an analysis of all General Plan designated Medium and High Density sites by existing zoning. This breaks down, by parcel, the Medium and High Density designations shown in Table 5-8. As noted, in order to achieve the targeted density of development, in some cases, a conditional use permit is required. In other cases, the current zoning will have to be upgraded to accomplish the density allowed in the General Plan. Of the 2,282 units available for multi-family development, 1,412 are immediately available for development. A program has been added to direct staff to initiate rezoning of parcels as needed to bring them up to the densities allowed by the General Plan. (6.4.8)

In designating the Medium and High Density sites in the General Plan, a comprehensive analysis was performed during the General Plan preparation to verify that these sites were appropriate for this density and free from development constraints. These sites are all outside of flood zones, relatively level (up to five percent slope), and the circulation element has been modeled to be consistent with and adequately accommodate the land uses designated by the Land Use Element of the General Plan which was adopted in October, 1995. These sites are generally located away from noise generating uses and are not in areas subject to aircraft overflight.

Table 5-10 compares the projected housing needs through 2005 against the vacant housing sites in the City and the Sphere of Influence as identified in Table 5-8. This clearly illustrates that there are more than adequate housing sites available to meet the projected housing needs for the City through 2005 and beyond.

Since 1990, there has been limited development in the City due to economic conditions in the nation and the State over which the City had no control. What little development did occur was primarily single family construction. The City has recently approved four multi-family apartment projects. One of these is built and occupied, one is under construction and completion is expected by March, 2002, and two are approved,

however, as of January 31, 2002, no plans have been submitted to the City for building permits. Several other projects are in the preliminary discussions stage.

The completed and occupied project, located at the southwest corner of Fern Avenue and Redlands Boulevard involves 62 senior units on a 2.34 acre parcel for a density of 26.5 dwelling units per acre. The maximum density allowed by the zoning would have been 29 units per acre.

The second project is under construction and expected to be ready for occupancy around the first of March, 2002. This project located at the southwest corner of Orange Avenue and Nevada Street includes eighty-four dwelling units on 8.8 acres for a density of 9.5 dwelling units per acre. The maximum density allowed by the land use district is ten units per acre.

The third project is one that has just recently been approved and is located at the northeast corner of Cypress Avenue and Hibiscus Street. This two story project involves 82 dwelling units on 4.74 acres of land for a density of 17 dwelling units per acre. For a two story project the maximum density is 17 units per acre. This project is waiting submittal of construction plans for plan check review.

The fourth project is a fourteen unit apartment development located on the southeast corner of Clifton Avenue and San Mateo Street. This project was not shown on the list of potential sites as it was in a predominantly single family neighborhood. It is located on 1.16 acres and has a density of twelve units per acre. The zoning was established specifically for this project through adoption of a specific plan. No plans for construction have been submitted as of this date, however, eight units were pre-existing and will be remodeled in the first phase.

No other multi-family projects have been submitted to the City for review in the past ten years. Several Medium and High Density multi-family projects are in preliminary discussion stages and formal application submittals are anticipated in the near future.

5.7 LAND AND SITES AVAILABLE FOR EMERGENCY SHELTER AND TRANSITIONAL HOUSING

Section 65583(c)(1) of the California Government Code states that local jurisdictions must "identify sites which will be made available through appropriate zoning and development standards and with public services and facilities needed to facilitate and encourage the development of a variety of types of housing for all income levels, including rentals housing, factory-built housing, mobile homes, emergency shelters, and transition housing."

According to the California Department of Housing and Community Development (HCD), suitable sites should be close to public agencies, transportation, and facilities, have reasonable development costs, and the General Plan designation or zoning must permit development or use "without undue special regulatory approval." The department cites Los Angeles as adopting a zoning ordinance that allows emergency shelters and transitional housing by right in high density residential and commercial zones.

Based upon these considerations, the City of Redlands shall amend the Downtown Redlands Specific Plan (No. 45 Revised) to allow emergency shelters and transitional housing by right in the TC zoned areas within the Downtown (See Program 6.3d).

The following is a list of potential sites that are vacant or underutilized within the Downtown Redlands Specific Plan Area:

Site Location	Zoning	Site Use	Number of Acres	Potential Number of Units/Occupancy
North of Stuart, West of Eureka	TC	Vacant	8.48	572
South of Stuart, East of Eureka	TC	Vacant	1.63	110
Potential Units/Occupancy for Shelters				682

The density of units or occupancy is based on the same formula utilized for congregate care and senior housing facilities. The General Plan Density is multiplied by household size (2.7) to determine total occupancy.

6.0 FIVE-YEAR HOUSING PROGRAM

Federal funding for housing declined dramatically in the 1980s, making communities hard pressed to find the land, money, and staff to produce housing that meets the needs of all people. During the 1990s, several new state and federal programs were adopted, or existing programs consolidated. State and federal funding is available to address homeless needs, special housing needs of individuals with AIDS, the preservation of at-risk low-income rental housing, and other special needs. A new federal housing program, the Home Investment Partnership Program (HOME), was established to provide funding for a wide range of housing activities benefitting low-income households. And, both the State of California and the federal government adopted programs providing supportive services in conjunction with housing programs serving low-income individuals and families.

The policies that follow represent an attempt by the City of Redlands to meet the housing needs of its citizens for the next five years, given the limitations imposed by current political, economic, and social conditions, and in consideration of available state and federal funding.

Housing Program policies are grouped under six headings: affordable housing; housing for persons with special needs; housing sites; removing constraints to housing production; residential conservation; and access to housing. A seventh section contains policies relevant to residential energy conservation.

6.1 QUANTIFIED OBJECTIVES

As required by Section 65583 of the California Government Code, policies in this section seek to meet quantified housing goals. Table 6-1 charts these goals.

Some units affordable by low- and moderate-income households will be produced by the private market. During the period 1985 through 1995, approximately 20 percent of owner-occupied units and virtually all multi-family units were affordable for moderate-income households, and a large proportion of multi-family units were affordable for low-income households.

**Table 6-1:
Redlands Quantified Objectives for City Program and Private Activity by Income Level for
2000-2005**

	Very Low Income	Low Income	Moderate Income	Above Moderate	Total
RHNA Adequate Sites	353	289	388	901	1,931
Actual Sites Available*	534	784	3,957	2,934	8,209
New Construction	200	250	388	901	1,739
First Time Homebuyer	5	20	50	N/A	75
Rehabilitation	60	40	N/A	N/A	100
Preserve at Risk**	218	N/A	N/A	N/A	218

* This applies to the City and its Sphere of Influence

**Units at risk between 2000 and 2005–Citrus Arms and Redlands Park apartments.

6.2 GOALS, POLICIES, AND PROGRAMS

A reduction or elimination of some state and federal programs, and the creation and consolidation of other programs, has created both constraints and opportunities for the City of Redlands in meeting its low- and moderate-income housing needs. As a consequence, much of the responsibility for assisting and funding affordable housing has been shifted to local jurisdictions. Market-rate ownership housing in Redlands is out of the reach of almost all low- and most moderate-income families who do not have equity in an existing home. While rental housing is more affordable by low- and most moderate-income households, many very low-income households are paying more than 30 percent of their income for housing costs. By creating a high density residential designation, rental housing market rents can be low enough to accommodate even very low- income households.

Guiding Policies: Affordable Housing

- 6.2a Participate in programs assisting in the production of housing affordable to very low-, low-, and moderate-income households.
- 6.2b Ensure that units produced for very low-, low- and moderate-income households are made available to those groups and maintained as affordable units.
- 6.2c Provide for a geographic dispersal of units affordable to very low-, low-and moderate-income households.
- 6.2d Ensure that the City's plans, codes, regulations, and ordinances, as well as housing program incentives, encourage the provision of a mix of housing types that are responsive to household size, income, and accessibility needs.

PROPOSED PROGRAMS

- 6.2.1 **Density Bonus.** As part of its housing program, the City will comply with Government

Code Section 65915, which requires a minimum density bonus of 25 percent above the otherwise maximum allowable density, or "incentives of equivalent financial value" for projects with 10 percent of their units affordable to very low-income households, or 20 percent to low-income households, or 50 percent for senior citizens. Rental units will remain affordable for a minimum of 30 years; resale controls will be placed on ownership units to maintain their affordability for future owners. Affordable units will be dispersed throughout the project.

Responsible

Agencies: Redlands Community Development Department; Redlands City Council

Actions

Needed: Continue to implement existing density bonus provisions of the Zoning Code.

Financing: Staff to administer program. CDBG fund or redevelopment funds to pay fees or provide other financial incentives for affordable density bonus units.

- 6.2.2 Non-profit Housing Providers.** Support efforts of non-profit housing sponsors, such as Baptist Homes of America and Corporate Fund for Housing, in constructing, acquiring, and improving low- and moderate-income housing.

Responsible

Agencies: Redlands Community Development Department; Redlands City Council

Actions

Needed: Determine level of commitment to be made and work to engage non-profit housing providers in an active partnership. Initiated in May, 1994 and will continue on a regular basis. Examples of City support efforts include expedited permit processing, use of CDBG or redevelopment funds, assistance in accessing state or federal funds, and provision of density and/or other regulatory incentives.

Financing: Stafftime. CDBG funds, redevelopment funds (when appropriate). Section 202 Program (senior and handicapped housing), HOME Program.

Non-profit groups, because of their tax-exempt status, flexibility, and special expertise are often ideal partners for public agencies in building affordable housing. Successful groups know how to combine available resources, structure deals, and create and use political support to produce affordable housing beneficial to the community, with minimum public investment and effort.

- 6.2.3 Redevelopment Low- and Moderate-Income Housing Funds.** Use 20 percent of tax increment in redevelopment area for the production of housing affordable to low- and moderate-income households, with emphasis on housing for those households with very low incomes.

Responsible

Agency: Redlands Redevelopment Agency

Actions

Needed: Assistance to providers of below-market rate housing. Funds are available immediately. Commitments are made as determined by the Agency. *Ongoing action.*

Financing: Tax increment in redevelopment project area.

California Health and Safety Code Section 33334.2 requires that 20 percent of a redevelopment agency's tax increment funds be use for increasing and improving the community's supply of low- and moderate-income housing, unless the agency makes findings each year that such funds are necessary to meet existing financial obligations. If such findings are made, a deficit fund is established and a deficit reduction plan must be written. Also, findings of "equivalent effort" may be made by the agency, showing that either the agency or its sponsor has supported programs intended to aid low- and moderate-income people. As of January 2000, there was approximately \$1.9 million in the fund. Between 2000 and 2005, the City anticipates spending \$3.0 million in redevelopment set-aside funds for housing, which will be distributed as follows:

20%	First Time Home Buyers
30%	Single-Family Rehabilitation
10%	Multi-Family Rehabilitation
30%	Developer Assistance
5%	Mobile-Home Assistance
5%	Administrative Budget

- 6.2.4 Mortgage Revenue Bonds.** If undertaken by San Bernardino County, continue to participate in mortgage-revenue-bond programs that provide tax exempt low-cost financing to developers of projects making a portion of ownership units affordable to moderate-income households and rental units to very low-income households.

Responsible

Agencies: San Bernardino County; Redlands City Council (to authorize City participation); Redlands Community Development Department (as City liaison with other agencies participating in consortium).

Actions

Needed: Work with developers who propose suitable projects. Contact San Bernardino County and other public agencies in the Inland Empire to determine interest and feasibility of new bond issue. Determine feasibility of new bond issue by December 2000. If feasible, participate in bond issue in 2001 or 2002 for financing of new housing construction in 2002 - 2005.

Financing: Staff time; bond interest cost is borne by federal and State governments.

Mortgage Revenue Bonds may be used to finance the construction or rehabilitation of single-family homes and construction, mortgage, and capital improvement loans for multi-family housing. For multi-family housing, provisions of the federal Tax Reform Act of 1986 require 20 percent of the units to be occupied by very low-income households.

6.2.5 Mortgage Credit Certificates. Determine the feasibility of using Mortgage Credit Certificates.

Responsible

Agencies: Redlands City Council or San Bernardino County: Redlands Community Development Department

Actions

Needed: Staff to contact agencies with on-going programs and determine feasibility for program in Redlands by December 2001. If feasible, may be used as a companion program to Mortgage Revenue Bonds in place of Mortgage Bonds.

Financing: Staff time.

Mortgage Credit Certificates (MCCs) were first authorized by the Tax Reform Act of 1984. The act permits state and local governments to exchange some or all of their authority to issue Mortgage Revenue Bonds (MRBs) for the authority to issue Mortgage Credit Certificates. A certificate entitles first-time home buyers with incomes less than 115 percent of median income to reduce the amount of their federal income tax liability by an amount equal to a portion of the interest paid during the year on their home mortgage. Unlike the standard mortgage interest rate deduction, which is subtracted from the adjusted income before calculating income tax owed, this credit is deducted from the actual money owed. The credits are in addition to the standard deduction. By allowing qualified home buyers to use more of their income on mortgage payments, the credit increases their effective home-buying power.

6.2.6 (HUD) HOME Investment Partnership Program for Multi-family Housing. Participation in the HOME program through the County of San Bernardino, Housing and Community Development.

Responsible

Agencies: Redlands Community Development Department, non-profit organizations

Actions

Needed: Staff to coordinate with County of San Bernardino, Housing and Community Development, and non-profit organizations. Initiated April 1993 and ongoing.

Financing: Staff time.

The (HUD) HOME Investment Partnership Program for Multi-family Housing replaces the State Rental Rehabilitation Program (SRRP), HUD Section 312 Program, Urban Homesteading, and HUD's Rental Rehabilitation for Entitlement Communities.

Money from the HOME program can be used for new construction, acquisition, or rehabilitation. The program emphasizes local governments working with non-profit housing development corporations. Local governments must assign 15 percent of their allocation to non-profits for rehabilitation or new construction. Local governments may also give money to private individuals.

The process for receiving grant money is based on a formula that considers the number of rental units constructed in a community before 1950 and its percentage of poor families. The City of Redlands has coordinated with San Bernardino County, Housing and Community Development and obtains funding jointly with their agency.

- 6.2.7 Low-Income Housing Tax Credits.** Assist non-profit and for-profit low-income housing providers in accessing low-income housing tax credits as a means of financing low-income housing development.

Responsible

Agency: Redlands Community Development Department

Actions

Needed: Assist in documenting project eligibility and preparing tax credit applications. *This is an ongoing action that the City will implement as requests for assistance are received by low-income housing providers.*

Financing: Staff time.

The Low Income Housing Tax Credit program provides a tax credit for owners of low-income rental housing. Eligible projects are those with at least 20 percent of the units occupied by very low-income tenants or at least 40 percent of the units in the project occupied by tenants earning 60 percent of the median income adjusted for family size. Projects receiving the federal tax credit must meet these requirements for 15 years. A state tax credit requiring the unit to remain low-income for 30 years is also available.

The amount of credit available in each state is limited to \$1.25 per capita, or \$34 million in California per year. The California Tax Allocation Committee distributes the credits.

- 6.2.8 Buy-out Assistance for HUD-financed Projects.** Assist non-profits in purchasing apartment projects financed by the United States Department of Housing and Urban Development that contain below market rate units threatened with conversion to market rate.

Responsible

Agencies: Redlands Community Development Department; Redlands City Council

Actions

Needed: Contact owners of remaining rental properties at-risk within one year of potential conversion to market-rate status. Contact non-profit housing agencies with experience and capacity to acquire these rental projects should owners be willing to sell. Assist property owners or non-profits in accessing state or federal funds designated for preservation of at-risk units. *This is an ongoing program that will be implemented by the City as rental properties approach the termination dates.*

Financing:

Staff time, funds for grants or loans.

Mortgage Revenue Bonds (acquisition or construction of replacement units)

California Multi-family Housing Program (replacement units)

Federal Section 8 New Construction Program (replacement units)

Federal Section 223 Program (refinancing of low-income rental projects)

Apartment projects built with financial assistance from HUD, either Federal Housing Administration (FHA) or Section 8 low-cost loans, have units with rents set at given levels for the life of the contract. Many of these contracts are coming to an end, with a resulting possible loss of affordable rental units. An inventory compiled by the California Housing Partnership Corporation lists three HUD-financed projects in Redlands: the Redlands Park Apartments, Casa de la Vista, and the Citrus Arms.

Title VI of the National Affordable Housing Act of 1990 (Cranston-Gonzales Act) provides funds for the preservation of affordable housing when a complex is threatened with conversion to market-rate due to pre-payment of the loan. Under the Act, HUD-financed projects threatened with conversion must first be offered for sale for three months to tenants of non-profit agencies. If after three months the project is not sold, the owner may sell to anyone; however, the unit must remain affordable for the life of the building if sold between 3 and 15 months of being offered. After 15 months, the owner can sell to anyone without restriction.

6.2.9 Public Housing. Cooperate with the San Bernardino County Housing Authority in developing, maintaining, and improving low-income housing.

Responsible

Agency: Redlands Community Development Department; Redlands City Council

Actions

Needed: Cooperate with the San Bernardino County Housing Authority in locating suitable sites or existing properties that can be rehabilitated and in obtaining funding. Initiate by November 1995 and ongoing.

Financing:

California Multi-family Housing Program (construction of replacement units)
Federal Section 8 New Construction Program (construction of replacement units)

Federal Section 223 Program (refinancing of low-income rental projects)

The San Bernardino County Housing Authority in 2000 assisted 321 households, either through direct ownership and management of public housing units, the provision of Section 8 Certificates, or the provision of Section 8 Vouchers.

6.2.10 Mobile Homes. Continue to implement regulations designed to retain existing mobile home parks and encourage new mobile home parks and subdivisions. These may include: 1) designation of specific sites for mobile home park or subdivision development, 2) incentives and assistance to encourage the conversion of existing mobile home parks to mobile home subdivisions where this would preserve mobile home living, and 3) provisions to encourage relocation in Redlands of mobile home park spaces displaced by public or private development activities.

Responsible

Agencies: Redlands Community Development Department; Redlands City Council

Actions

Needed: Add implementing language to zoning and subdivision regulations. *Initiate by June, 2002.*

Financing: Staff time to prepare regulations.

Development of mobile home parks, the major source of affordable single-family housing, has slowed statewide because land owners in urban areas realize a greater return for other urban uses.

- 6.2.11 Mobile Home Rent Control.** Continue current rent control program that limits rent increases in existing parks to no more than the Consumer Price Index increase for that year.

Responsible

Agency: Redlands Mobile Home Rent Control Board; Redlands City Council

Actions

Needed: Continue existing program. Program is continuous and ongoing.

Financing: Board expenses.

- 6.2.12 Limited Equity Cooperatives.** Retain existing policy of encouraging formation of limited equity stock cooperatives.

Responsible

Agency: Redlands City Council

Actions

Needed: Contact non-profit or for-profit housing organizations by *September 2002* that specialize in disseminating information on cooperatives and locating developers and financiers of such housing projects. Determine potential for the development of such housing in the Redlands market.

Financing: None.

By limiting the profit made when an individual sells "stock" in a cooperative, cooperatives are able to retain affordable housing. No applications have been received for limited equity stock cooperatives.

- 6.2.13 Community Development Block Grant Program.** Funding program to assist in accomplishing programs identified within the Five-Year Housing Program. The City currently participates with the County in this federal grant program.

Responsible

Agency: Redlands Community Services Department

Actions

Needed: Apply for annual allocation of CDBG Funds. Prior to preparation of annual application, conduct public hearing to ascertain CDBG funding priorities and develop annual strategy for use of funds. *Current and ongoing action.*

Financing: CDBG Program.

6.3 HOUSING FOR PEOPLE WITH SPECIAL NEEDS

Section 4.2 identified those groups with special housing needs in Redlands: seniors, large families, female-headed households, disabled persons, and homeless families and individuals.

Guiding Policies: Housing For People With Special Needs

- 6.3a Provide incentives for development of affordable housing for seniors, single mothers, and disabled persons on sites where proximity to services and other features make it desirable.
- 6.3b Encourage the development of affordable housing units with three or more bedrooms.
- 6.3c Encourage the development of emergency and transitional housing for homeless persons and families.

PROPOSED PROGRAMS

6.3.1 Density Bonuses For Very Low, Lower Income, and Senior Citizens. *Allow a 25-percent density bonus, plus a special incentive for projects having at least 20 percent of total units affordable to lower income households, or at least 10 percent of total units affordable to Very Low Income Household, or for Senior Citizen Housing projects.*

Responsible

Agency: Redlands Community Development Department

Actions

Needed: Ordinance adopted, implementation on-going

Financing: Staff time

6.3.2 Housing Referral and Placement Program. Support establishment of a program for those needing housing to link with those wanting to share their homes or wishing to take advantage of the City's "second dwelling unit" ordinance.

Responsible

Agencies: Redlands Community Development Department and a non-profit organization

Action

Needed: Continue to work with a non-profit to implement this program. *Current* and ongoing.

Financing: Staff time, CDBG funds.

6.3.3 Group Homes and Community Care Facilities for Individuals Unable to Live Independently. Continue to work with non-profit organizations to identify the need for group homes and community care facilities for specific population groups (elderly, disabled, etc.) If there is a need, assist in identifying appropriate sites under the City's Zoning Code.

Responsible

Agencies: Redlands Community Development Department, non-profit organization

Actions
Needed: Ensure community support, site location; identify sites in zones permitting such facilities. Ongoing action. *Site identification is conducted on a case-by-case basis as specific group home proposals are submitted to the City.*

Financing: Staff time.

6.3.4 Federal Funding for Low-Income Senior and Handicapped Housing. Assist non-profit developers in pursuing federal funding for additional low-income housing for seniors and handicapped persons.

Responsible
Agencies: Redlands Community Development Department; Redlands City Council; Redlands Redevelopment Agency; Non-profit groups

Actions
Needed: Engage the interest of non-profit developers, and help them locate sites and apply for funds. Continue as an ongoing action.

Financing: Staff time; CDBG or redevelopment funds to provide assistance in completing feasibility studies, applying for state or federal funds or tax credits, and acquiring one or more sites.

The Federal Department of Housing and Urban Development (HUD) has a series of loan programs to fund non-profit developers of low-income rental and cooperative units for elderly or handicapped people. These include zero-interest Section 106(b) loans for up to \$50,000 for pre-development expenses, and low-interest Section 202 and Section 811 loans for construction and rehabilitation.

6.3.5 Second Dwelling Unit Ordinance for Seniors and Handicapped.

Responsible
Agencies: Redlands Community Development Department; Redlands City Council

Actions
Needed: Maintain Second Dwelling Unit Ordinance in accordance with State law. Process CUPs as requested. Process is on-going.

Financing: Staff time.

The City of Redlands adopted a Second Dwelling Unit Ordinance in 1992 and updated the Ordinance in 1994 in accordance with State law.

6.3.6 Congregate Housing. Encourage congregate housing.

Responsible
Agency: Redlands Community Development Department; Redlands City Council

Actions
Needed: Ensure City policies and zoning do not hinder such development. Review of City zoning policies completed to ensure that there are no regulatory

barriers to the development of such housing. *City will monitor application of regulations annually to ensure that zoning requirements do not create unreasonable barriers and cost.*

Financing: None.

Congregate housing, which is usually intended for seniors but also may be used for the handicapped, students, and single mothers, features private rooms or apartments with shared communal facilities, such as kitchens and recreation areas. In Redlands, small kitchens are allowed in the units themselves so long as tenants pay for two common meals per day.

- 6.3.7 Single-Room Occupancy Housing.** Encourage the maintenance and development of single-room occupancy housing by identifying existing and potential units and supporting development with loans, fee waivers, and relaxed standards.

Responsible

Agencies: Redlands Community Development Department; Redlands City Council

Actions

Needed: Identifying existing structures and potential sites, winning the interest of developers, and working out appropriate incentives. City has identified potential sites in the downtown area where SROs are permitted under the Zoning Code. *The City will update the site identification as changes in land use occur on targeted sites.*

Financing: Staff time; CDBG funds or redevelopment set-aside funds. Assistance in accessing state or federal funds for construction of such housing (the most appropriate state or federal program will depend on the client group that SRO housing units will serve).

Many cities have found existing single-room occupancy hotels (SROs) to be a valuable source of housing for very low-income persons. In addition, new SROs represent a cost-effective means of providing permanent and transitional housing. In most SRO projects, new development "pencils out" with very little public financial support or concession.

In Redlands, the likely sources of SRO units are obsolete motels that are no longer able to compete for the traveling clientele.

- 6.3.8 Emergency Shelter Services and Transitional Housing.** Support efforts by local non-profit groups to provide emergency shelter and transitional housing, with special emphasis on homeless families.

Responsible

Agencies: Redlands Community Development Department; Redlands City Council; Redlands Family Services, the United Way, and other interested non-profit organizations

Actions

Needed: Designate sites; aid in obtaining grants, fund with loans or CDBG money. Continue on-going support to non-profits. *Staff to research sites, grants and funding by December 2002.*

Financing: Staff time; perhaps provide with loans and other financial incentives.

Delaware House, run by "Frazee" a San Bernardino homeless service organization and funded in part by the United Way, provides shelter for 15 people over age 55 and could serve as a model. With the estimated number of homeless ranging from 45 to 350 and more, the need for more shelter is apparent.

Possible funding sources include the Emergency Food and Shelter Program operated by local boards of the Federal Emergency Management Agency (FEMA), Community Services and Development Block Grants (CSBGs and CDBGs), and the California Emergency Shelter Program (ESP).

6.3.9 Permanent Housing for the Handicapped, Homeless (PHH). Investigate participation in the PHH program.

Responsible

Agencies: Redlands Community Development Department, non-profit organizations

Actions

Needed: Staff to contact agencies with on-going programs and determine feasibility for program in Redlands. Staff to contact possible project sponsors. *Initiate process in June 2002.*

Financing: Staff time.

The Permanent Housing for the Handicapped, Homeless (PHH) program is part of the federal McKinley Act. The process begins with a request for proposal, issued early in the year with a deadline for application. The state administers the funding and application process. Winners are announced in August. The program requires a well-written description of services for the project, matching funds, site-control or at least an option on the property. While non-profits apply most often, cities may also apply and often participate in providing matching funds.

6.3.10 First- and Last-Month Loan Program. Provide short-term, zero-interest loans to cover the first- and last-month's rent and security deposit for qualifying households. Household income must be 50 percent or less of the median income, yet must be sufficient to pay the rent.

Responsible

Agencies: Redlands Community Development Department; Redlands City Council

Actions

Needed: *Establish and periodically revise loan guidelines, program procedures, allocate staff or find third party to administer program. Current and ongoing program. City to evaluate program guidelines and make appropriate changes, if indicated, by December 2002.*

Financing: Loan funds, perhaps using CDBG or emergency services monies, staff time.

For some homeless people, and some threatened with homelessness, gathering the cash to pay for move-in costs is the major, insurmountable obstacle to finding housing. This

program would provide the necessary, temporary funding for such move-in costs. San Bernardino County already provides grants for the first-month's rent and security deposit, but only to recipients of Aid to Families with Dependent Children.

6.4 NEW HOUSING DEVELOPMENT

The General Plan provides for 6,768 additional housing units within the 1995 city boundaries, exceeding the SCAG 1989-1996 housing allocation by 70 percent. Sufficient land is zoned and served to meet 100 percent of the low- and very low-income housing need assuming a large number of units will be added at the High and Medium Density levels. Projected density bonuses, congregate housing and single-room occupancy housing is in addition to these totals. Factory built and mobile homes are allowed in all residential zones, although given the density usually requires at least a low density residential designation. Table 5-7 identifies the available residential sites.

Guiding Policy: Housing Sites

- 6.4a Designate and zone sufficient land to meet housing needs as determined by regional housing allocation.

PROPOSED PROGRAMS

- 6.4.1 **Implement Zoning Ordinance to include standards for congregate housing in Medium Density areas designated on the General Plan Diagram.**

Responsible

Agencies: Redlands Community Development Department; Redlands City Council

Actions

Needed: Current and ongoing.

Financing: Staff time.

- 6.4.2 **Implement Zoning Ordinance to include standards for Single Room Occupancy (SRO) housing within the Downtown Specific Plan area.**

Responsible

Agencies: Redlands Community Development Department; Redlands City Council

Actions

Needed: Current and ongoing.

Financing: Staff time.

- 6.4.3 **Emergency Shelter and Transitional Housing Sites.** To foster the development of emergency and transitional housing, designate suitable sites.

Responsible

Agency: Redlands Community Development Department; Redlands City Council

Actions

Needed: Continue to assess need and allow such facilities by right in appropriate zoning districts and implement current Zoning Ordinance requirements. *Conduct re-evaluation of current provisions by December 2002 to ensure that sufficient locations exist to meet future need. Recommend changes, if appropriate, for City Council consideration by March 2003.*

Financing: Staff time.

Section 65583(c)(1) of the California Government Code states that local jurisdictions must "identify sites which will be made available through appropriate zoning and development standards and with public services and facilities needed to facilitate and encourage the development of a variety of types of housing for all income levels, including rental housing, factory-built housing, mobile homes, emergency shelters, and transitional housing."

6.5 REMOVING CONSTRAINTS TO HOUSING PRODUCTION

Guiding Policy: Removing Governmental and Non-Governmental Constraints to Housing Production

6.5a Remove constraints to production and availability of housing to the extent consistent with other General Plan policies.

6.5b Remove or reduce the impact of non-governmental constraints to housing production.

PROPOSED PROGRAMS

6.5.1 **Revise Criteria Under Redlands Municipal Code to Assist Low Income Households.** Amend the point system for awarding and allocating units to give more emphasis and greater point value to projects that include housing affordable to lower-income households.

Responsible

Agency: Community Development Department; Redlands City Council

Actions

Needed: Amendment to ordinance pertaining to the point allocations. *Preparation and adoption of amendment by December 2002.*

Financing: Staff time.

The current point system does allocate 10 points for low-income projects. The intent of this policy is to give additional points to low-income projects.

6.5.2 **Development Fees.** Development fees should be evaluated on a regular basis to ensure they accurately reflect the fair-share costs of mitigating impacts from new development projects. The City Council may assist senior and low-income housing projects by assisting in payment of fees through use of Redevelopment Agency Set-Aside Funds or Community Development Block Grant Funds. The City Council on September 19, 1994, adopted Ordinance 2254 which authorized a 50 percent reduction on certain water and sewer fees.

Responsible
Agency: Redlands City Council

Actions
Needed: Continue current procedure. Establish specific policy for assistance with fees. Practice is on-going.

Financing: Staff time.

The City has utilized Redevelopment Agency set-aside funds to assist the Section 202 Senior Housing Project developed by American Baptist Homes and the R-SB Harbinger Corporation for handicapped housing.

- 6.5.3 Participate in Establishment of Building Code.** The Uniform Building Code is adopted at National and State levels. The City may participate and potentially influence the adoption of new codes to ensure unnecessary costs are not added while criteria is incorporated to assist those with special housing needs.

Responsible
Agency: Community Development Department

Actions
Needed: Attend and participate in updates of the Uniform Building Code on an on-going basis.

Financing: Staff time.

- 6.5.4 One-Stop Permit Processing.** Improve current practice by creating a one-stop counter more convenient to the public. Continue preliminary review process to assist applicants with filing process.

Responsible
Agency: Community Development Department; Redlands City Council

Actions
Needed: Improve and continue current practice.

Financing: None.

- 6.5.5 Planned Residential Development.** Maintain current ordinance that allows flexible open space and setback standards.

Responsible
Agency: Redlands City Council

Actions
Needed: Continue current practice.

Financing: None.

- 6.5.6 Mixed Use Zoning.** Retain current zoning that allows residential units on upper stories in the downtown commercial district and other housing in the Administrative/Professional zones. Provide new incentives such as floor area bonuses in the downtown and other commercial districts.

Responsible

Agency: Community Development Department; Redlands City Council

Actions

Needed: Continue current practice and amend the Downtown Specific Plan to provide additional incentives to create housing. Adopt amendment by August 2002.

Financing: None.

- 6.5.7 Mitigate Finance Costs for Low-Income Projects.** Work with bonding institutions to make available funds for low income projects in the City of Redlands. Identify and promote programs that reduce costs for low-income projects (See policies 6.1g and 6.1h).

Responsible

Agency: Community Development Department

Actions

Needed: Continue current practice. On-going.

Financing: Staff time.

- 6.5.8 Maintain a Large Supply of Available Sites to Maintain Competitive Land Costs.** The City has identified sites that exceed the identified need between 1998 and 2005 by a more than five-to-one ratio. By maintaining more sites than identified competition will help to maintain lower land costs.

Responsible

Agency: Redlands City Council

Actions

Needed: Adopt the General Plan and amend zoning *as needed to bring all zoning into compliance with the adopted General Plan. This should be initiated no later than the beginning of 2004. City will conduct annual re-evaluation of land supply.*

Financing: Staff time.

- 6.5.9 Establish a Fast-Track Development Process.** The City has worked with developers to reduce processing time by being flexible on submittal dates and overlapping processes. This can process has been formalized and made available to housing projects.

Responsible

Agency: Community Development Department

Actions

Needed: Continue to implement existing "Fast Track" development process.

Financing: Staff time.

- 6.5.10 Evaluate and Revise Zoning Standards.** The City currently evaluates and amends zoning standards to reflect current needs. This should be continued.

Responsible

Agency: Community Development Department

Actions

Needed: Continue current practice. on-going.

Financing: Staff time.

- 6.5.11 Evaluate and Revise Off-site Improvement Standards.** The City has modified off-site standards for certain types of housing development. This process can be continued and expanded to reduce costs to housing.

Responsible

Agency: Public Works Department

Actions

Needed: Continue current practices and evaluate and amend standards. On-going.

Financing: Staff time.

- 6.5.12 Evaluate initiating a ballot measure to allow carryover of unused building permit allocations from year to year.** Proposition R and Measure N established a limit of four hundred (400) dwelling units that could be built in any one calendar year. The original number was established based on an historical average of dwelling units per year. Proposition R and Measure N prohibit the carryover of unused dwelling units from year to year. While this will not necessarily prohibit the City from meeting its current housing goals, it may be required to exceed the 400 unit cap at some point in order to meet the goals if the development activity were to remain low for an extended period of time during this Element's time period. In order to allow this, it would be necessary to amend the adopted voter initiative.

Responsible

Agency: Redlands City Council

Action

Needed: Hold a public hearing to consider initiating an amendment to Measure N. This public hearing will be held in time to get the amendment on the ballot for the November, 2003 election.

Financing: Staff time and funding City Election.

- 6.5.13 Evaluate the necessity of amending the Zoning Code to raise the threshold of multi-family dwelling units for establishing the requirement for a conditional use permit.** Current City Code requires a conditional use permit (public hearing) for all multi-family residential projects of 35 units or more. While this has not proved to be an obstacle in the City of Redlands to achieving multi-family units in the past, it could be perceived as a potential

impediment to achieving the City's housing goals. The City will monitor the permitting of new multi-family residential projects over the next two years to determine if we are not meeting our goals and if the requirement for a public hearing is a factor in the review process. If at the end of that period it is determined that the conditional use permit process is adversely affecting approvals of projects, including the cost of housing, it is proposed that raising the threshold be formally studied and considered.

Responsible

Agency: Redlands City Council

Actions

Needed: Staff will monitor multi-family projects over the next two years to determine if the requirement for a conditional use permit was a factor in decisions on the projects. The City will adopt mitigation measures, if needed, after the analysis and report on the progress as part of the annual General Plan Review which is submitted to Housing and Community Development along with the Governor's Office of Planning and Research.

Financing: Staff time

6.6 RESIDENTIAL AND NEIGHBORHOOD CONSERVATION AND REHABILITATION

The following policies seek to improve the condition of housing, to protect neighborhoods from deterioration, and to enhance and preserve the historical and architectural character of housing. More detailed policies concerning historical and architectural preservation are included in the Conservation Element.

Guiding Policies: Residential and Neighborhood Conservation and Rehabilitation

6.6a Maintain Redlands' housing stock in sound condition.

6.6b Rehabilitate substandard housing where feasible.

6.6c Provide public services and improvements that enhance and create neighborhood stability.

6.6d Preserve and protect residential historical and architectural resources.

PROPOSED PROGRAMS

6.6.1 Adaptive Reuse of Single-Family Homes. Where historic homes are located in multi-family zoned areas, allow conversion to multi-family use only if the home's exterior appearance is preserved. Enforce design guidelines to ensure that new or renovated multi-family buildings are compatible in appearance with neighboring homes.

Responsible

Agencies: Redlands Community Development Department; Redlands City Council

Actions

Needed: Allowed under current Zoning Ordinance. Current and ongoing.

Financing: Staff time.

The citizens of Redlands are proud of their city's architectural heritage and are concerned that it be preserved. This policy is intended to balance the need for more affordable housing and housing choice with the need to preserve Redlands' traditional appearance and atmosphere.

- 6.6.2 Condominium Conversion Ordinance.** Retain existing policy of prohibiting condominium conversions unless City zoning and housing code standards are met.

Responsible

Agencies: Redlands Community Development Department; Redlands City Council

Actions

Needed: Continue existing policy. On-going.

Financing: Staff time.

No applications were received between 1995 and 2000.

- 6.6.3 Senior and Handicapped Housing Grants.** Continue existing program.

Responsible

Agencies: San Bernardino County; Redlands Community Development Department; Redlands City Council

Actions

Needed: Continue existing program. On-going.

Financing: Use CDBG funds to pay for repair crews.

The City uses part of its Community Development Block Grant (CDBG) funds to provide repair grants to seniors and handicapped people. Because Redlands receives its CDBG funds under the "small cities" program, San Bernardino County administers the program, sending out crews to make the repairs.

- 6.6.4 Community Development Block Grant (CDBG) Rehabilitation Loan Program.** Continue existing program.

Responsible

Agencies: San Bernardino County; Redlands Community Development Department; Redlands City Council

Actions

Needed: Continue and publicize existing program.

Financing: CDBG funds for loans.

This program is similar to the Senior and Handicapped Grant Program, except low-interest loans are provided to qualified owners instead of outright grants, and recipients must arrange for the work to be done.

- 6.6.5 Rental Rehabilitation Program.** Continue existing program of providing CDBG federally-funded loans with deferred repayment for rehabilitating rental units.

Responsible

Agencies: Redlands Community Development Department; Redlands City Council

Actions

Needed: Continue present program.

Financing: CDBG funds for loans.

This program is similar to the Senior and Handicapped Grant and CDBG Rehabilitation Loan programs. Loans of up to \$10,000 are made at prime rates, with interest payments deferred for seven years provided the units are kept affordable to low-income households.

- 6.6.6 Outreach Program for Rehabilitation and Repair Programs.** The City of Redlands participates with the County of San Bernardino in its Rehabilitation and Repair Programs. Improved information, knowledge, and assistance in filling out applications would result in greater participation.

Responsible

Agencies: Redlands Community Development Department; Redlands City Council

Actions

Needed: Outreach is a current and ongoing part of the City's rehabilitation programs.

Financing: Staff time.

6.7 ACCESS TO HOUSING

Equal access to housing is protected by state and federal law. Discrimination on the basis of race, ethnic or national origin, religion or marital status is prohibited by the Federal Civil Rights Act of 1968 and by Section 53 of the California Unruh Civil Rights Act. The Federal Fair Housing Amendments Act of 1988 prohibits discrimination based on handicap and familial status. The Rumford Fair Housing Law (part of the California Fair Employment and Housing Act of 1980) also protects individuals access to housing.

The Fair Housing Amendments Act prohibits discrimination against children. Mobile home parks and other developments designed specifically for seniors or handicapped are exempt.

Guiding Policy: Access to Housing

- 6.7a** Work to ensure that individuals and families seeking housing in Redlands are not discriminated against on the basis of age, sex, family structure, national origin, or other arbitrary factors.

PROPOSED PROGRAMS

- 6.7.1 Fair Housing Counseling.** Continue to contract with the Inland Mediation Board to provide landlord-tenant mediation and fair housing counseling.

Responsible

Agencies: Inland Mediation Board; Redlands City Council

Actions

Needed: Continue present program. On-going.

Financing: Maintain present CDBG funding.

6.8 RESIDENTIAL ENERGY CONSERVATION

The following policies are in compliance with Government Code Section 65583(7), which requires analysis of opportunities for residential energy conservation.

Guiding Policy: Residential Energy Conservation

- 6.8a Establish development and construction standards that encourage energy conservation in residential areas.

Implementing Policies: Residential Energy Conservation

- 6.8.1 **Design Standards.** Develop or revise design standards relating to solar orientation of buildings, landscaping, fences, impervious surfaces, and parking-space requirements to conserve energy.

Responsible

Agencies: Redlands Community Development Department; Redlands City Council

Actions

Needed: Revise design standards. Adopt standards by December 2002.

Financing: Staff time.

- 6.8.2 **Subdivision Ordinance.** Incorporate into a revised Subdivision Ordinance a requirement for lot orientation and design to take advantage of passive solar heating and cooling, maintenance of solar access, street widths, and proper planting of trees to reduce heat gain and loss.

Responsible

Agencies: Redlands Community Development Department; Redlands City Council

Actions

Needed: Revise subdivision ordinance. Adopt new ordinance by December 2002.

Financing: Staff time.

- 6.8.3 **Land-Use Patterns and Densities.** In new development areas, encourage land-use arrangements and densities that facilitate energy-efficient public transit systems.

Responsible

Agencies: Redlands Community Development Department; Redlands City Council

Actions

Needed: Consult with Omnitrans, the local transit provider. On-going.

Financing:

Staff time.

- 6.8.4 Neighborhood Services.** Encourage the retention and creation of neighborhood-level services throughout the City in order to reduce energy consumption and promote neighborhood identity.

Responsible

Agencies: Redlands Community Development Department; Redlands City Council

Actions

Needed: Continue to implement Zoning Ordinance to achieve Land Use Element Policy 4.51b. Current and ongoing.

Financing:

None.

7.0 OPEN SPACE AND CONSERVATION ELEMENT

REDLANDS GENERAL PLAN

7.0 OPEN SPACE AND CONSERVATION ELEMENT

Several types of open space or areas identified for conservation are shown on the General Plan Diagram, including Parks/Golf Courses, Agriculture, Flood Control/Construction Aggregates, Conservation/Habitat Preservation, and Resource Conservation. These land use categories are described more fully in Section 4, Land Use Element.

In addition to the General Plan Diagram, seven figures depict open space or conservation areas throughout the Planning Area. These are found in the General Plan and associated with Master Environmental Assessment (MEA) and include GP Figure 8.2, Slope, GP Figure 7.2, Biotic Resources, GP Figure 8.1, Environmental Hazards, MEA Figure 5.2, Agricultural Lands, and MEA Figure 10.1, Archaeologic Sensitivity.

The Citizens of Redlands, continuing their founders' heritage, place a high value on scenic resources, open space (especially citrus preservation), parks and recreation lands. This commitment was documented by the passage of a bond measure in 1987 for the purpose of acquisition of land for parks and open space.

Integration of the Open Space Element and Conservation Element

In function and content, the Open Space Element and Conservation Element often overlap. The Conservation Element is oriented toward the management of natural resources to prevent waste, destruction or neglect. The Open Space Element, in contrast, emphasizes open space as a land use and requires that preservation and management of natural resources be considered in land use planning and decision-making. This combined Open Space and Conservation Element describes conservation practices within the state-designated types of open space described below, meeting the requirements of both elements. In addition, Redlands' archaeological resources are considered.

Cross-Reference to Other Elements

Issues concerning open space for public health and safety are fully described in the Health and Safety Element. Preservation of historic resources is considered in the City Design and Preservation Element. Open space districts are defined in the Land Use Element.

State Classification of Open Space

State law requires that four types of open space be analyzed in the Open Space Element. Open space land is any parcel or area of land or water that is essentially unimproved and devoted to open space use, which may include:

- Open space for outdoor recreation including areas of outstanding scenic and cultural value, areas suited for parks/recreation purposes, areas which link major recreation and open space reservations such as utility easements, banks of rivers and streams, trails and scenic highway corridors.
- Open space for the preservation of conservation of natural resources, including, but not limited to, preservation of nature, wildlife migration, riparian, scenery, and points of interest.
- Open space for the managed production of resources, including, but not limited to, agricultural lands.
- Open space for public health and safety such as flood plains, watersheds, earthquake fault zones, and unstable soil areas.

7.10 Parks and Recreational Open Space

This section contains policies for parks, golf courses, and recreation purposes, including areas that serve as links between major recreation and open space reservations, such as trails, and areas of outstanding scenic and cultural value and corresponds to the "open space for outdoor recreation" category in State Planning Law. Land acquired or dedicated for permanent agricultural use, even if part of a park, is described under Section 7.40, Managed Production of Resources. Open space reservations could include term utility easements, and banks of rivers and streams.

The General Plan Diagram uses circles or polygons with rounded corners to indicate proposed parks. At some locations more than one site in the vicinity of the symbol may be appropriate and could be approved without amending the General Plan. Pocket parks (two acres or less) are not shown on the General Plan Diagram. A complete listing of parks is found in GP Table 7.1.

Many of the park and recreational open space policies and proposals are taken from the June 1987 Park and Open Space Plan adopted in principle by the City Council.

Standards

Neighborhood parks are designed primarily to meet the needs of elementary- school-age-children households within one mile. These parks include picnic and play areas. The seven existing parks range from five to 17 acres. The Plan proposes three additional parks ranging from eight to 15 acres. It is recommended that, where possible, neighborhood parks be located in conjunction with schools. A broadly held standard for park acreage in California is 10-15 acres.

Community parks serve all ages and may include parklike landscaped areas, fields, courts, and large play areas. The four developed community parks and two partially developed sites range from 11 to 27 acres and also serve as neighborhood parks for nearby residents. The California standard recommends 15 to 30 acres for these parks. Three additional community parks would range from 20 to 25 acres.

City parks serve all ages and would be similar to community parks but broader in range of activities. The Plan proposes two city parks ranging from 40 to 100 acres. The California standard is 100 acres. The City park proposed in San Timoteo Canyon could be a joint venture with the City of Loma Linda. The second site is in northeast Redlands at the northwest corner of Wabash and San Bernardino.

Regional parks have no standard recommendations though they are generally 150 acres and serve an entire geographical area. The Plan proposes two regional parks. The most appropriate and possible use for the two landfill sites in Redlands' Planning Area would be a joint venture between the City and San Bernardino County for the reuse of the landfill in San Timoteo Canyon and for the site at Palmetto and Nevada Streets. Methane gas migration from landfill sites should be carefully studied prior to reuse of landfill sites.

The need for additional facilities for organized sports will be met in the vicinity of Wabash Avenue and San Bernardino Avenue in northeast Redlands; at the new high school and in San Timoteo Canyon. Other proposed city and regional parks would also provide additional sports fields.

GP Table 7.1
Existing and Proposed Parks

Park	Neighborhood	Community	City	Regional	City Groves	Other ¹	Applicable to Acres/ 1,000 Residents Standard ² (Policy 7.10j)
<u>EXISTING</u>							
Brookside	9.2						9.2
Caroline Park	16.8						8.0
Centennial Park ³						30.0	3
Community Center						2.6	2
Community Park		18.2					18.2
Crafton Park	7.5						7.5
Ed Hales Park						.3	.3
Ford Park		27.0					27.0
Franklin Park						.6	.6
Jennie Davis Park	5.2						5.2
Judson/San Bernardino ³	12.8				6		12.8
Prospect Park		11.4			24		11.4
Simonds Parkway						.9	.9
Smiley Park	9.2						9.2
Sylvan Park		23.3					23.3
Texonia Park	8.8						8.8
Orange Avenue Farm ³		18.7					18.7
San Timoteo Canyon ³						39.0	13.0
Sunset Hills ³						40.0	5.0
Lincoln/Laramie ³						.8	.8
Crafton Hills ³						238	25
Amethyst/Hwy 38 ³ Scout House		27.1					17.0
Texas Armory						2.0	0
The Terrace						2.5	2.5

1 - Other for proposed Parks = flood control, natural for viewing, pocket (mini) parkland. Other for Existing Parks = Natural areas/mini pocket parks; **2** - Land not applicable to the standard consists of steep hillsides, flood control area, and pocket parks that may be valuable components of the parks system but are not suited for intensive use; **3** - Acquired but undeveloped parks; **4** - Proposed but undeveloped parks.

GP Table 7.1
Existing and Proposed Parks (Continued)

Park	Neighborhood	Community	City	Regional	City Groves	Other ¹	Applicable to Acres/ 1,000 Residents Standard ² (Policy 7.10j)
Palmetto/Nevada ³				80		16.7	80
Pioneer/Wabash San Bernardino ³			90		10		90
Texas/Webster					13		0
Fifth Ave.					13		0
San Bernardino/Tennessee					10		0
I-10/California					5		0
Nevada/Palmetto					16.7		0
Olive Ave.					3.75		0
9 Elementary Schools ⁵	28.0						28.0
3 Junior Highs 3 High Schools ⁵		50.0					50.0
Subtotal	97.5	175.7	90	80	101.5	373.4	477.4
<u>PROPOSED</u>							
San Timoteo ⁴ Canyon Jt.			40.0			30.0	40.0
West Redlands ⁴	8.0						8.0
Wabash at I-10 ⁴	16					2.0	16
Mission/Zanja ⁴						.7	.7
Zanja Det. Basin ⁴		20				20	20
Mentone ⁴		20.0					20.0
Sand Canyon Area ⁴	15						15
Live Oak Canyon ⁴	12.0						12.0
Greenspot ⁴		25.0					25.0
Northeast Airport ⁴						60.0	30.0
Palmetto/Nevada ⁴				80		16.7	80
Pioneer/Wabash San Bernardino ^{3/4}			66				66
San Tim Landfill ⁴				75.0			75.0
Elementary ⁴	15.0						15
Subtotal	50	65	40	75	0	110.7	260.7
Total at Buildout	147.5	240.7	130	155	101.5	484.1	738.1

¹ Other for proposed Parks = flood control, natural for viewing, pocket (mini) parkland. Other for Existing Parks = Natural areas/mini pocket parks; ² Land not applicable to the standard consists of steep hillsides, flood control area, and pocket parks that may be valuable components of the parks system but are not suited for intensive use; ³ Acquired but undeveloped parks; ⁴ Proposed but undeveloped parks; ⁵ School site area is assigned half-credit toward meeting the acres per thousand residents standard, consistent with the 1987 Recreation Element. Acreage shown is 50% of recreation area.

GP Table 7.2
Proposed Parks: Sites and Facilities

<u>NEIGHBORHOOD PARKS</u>	
West Redlands:	A few sites remain for a neighborhood park to serve the medium-density area located north of Brookside Avenue between Center and Alabama.
Sand Canyon Area:	The residential area in the vicinity of San Canyon should include a 15 acre park.
Live Oak Canyon:	The neighborhood east of Redlands Country Club lacks park service, but good sites remain south of the subdivided area and near proposed trail system. A 12 acre park could be combined with natural open space areas.
<u>COMMUNITY PARKS</u>	
Zanja Detention Basin:	By adding to the acreage needed for flood control, all or a portion of the basin could have park value or be used for athletic facilities.
Mentone:	A community park on Nice Avenue would be a major recreation facility oriented to Mentone (Note: There is a sports field site near Amethyst and Highway 38 which might serve this same purpose.)
Greenspot:	A community park may be appropriate to serve the Greenspot area.
<u>CITY PARKS</u>	
San Timoteo Canyon:	This proposed site has been considered good park land with citrus preservation for future development. It could be a strong possibility as a joint City venture with Loma Linda or developments across the Riverside County line.
<u>REGIONAL PARKS</u>	
San Timoteo Canyon:	This proposed park site is the County Landfill site and exists on the County plan for a park site. It could be a joint venture between the City and the County.
<u>OTHER</u>	
Mini or pocket parks should be located throughout the City for neighborhood convenience. Equally valuable to the City are bridle trails, jogging trails, linear parks along the Santa Ana Wash, medians, greenbelts, right-of-way, easement, wash area, scenic viewpoints near and far.	

The City's efforts to acquire more parkland and open space have been led by the Open Space Committee of the Redlands Parks Commission which was designated to recommend acquisition of land in accordance with the allocation of funds specified in Measure O, the Open Space and Park Land Acquisition measure approved by voters in 1987. Land allocation percentages of the \$7.2 million bond were as follows: citrus preservation, 22 percent; expanded parks and recreation, 27 percent; natural area preservation, 15 percent; sports complex, 14 percent; strip parks and trails, 12 percent; and City entrance land, 9 percent. These percentages were established by City Council based upon community survey.

Golf Courses

The General Plan anticipates three 18-hole golf courses in addition to the private Redlands Country Club course, thus meeting the traditional standard of one golf course per 25,000 residents. The site adjoining the Santa Ana Wash north of Mentone (160 acres) is within the Redlands Airport noise impact area and is envisioned as a municipal course. The Greenspot (204 acres) and San Timoteo Canyon (140 acres) golf courses are expected to be developed in conjunction with large residential subdivisions. The location of the Mentone and Greenspot golf courses are schematically shown on the land use map reflecting a non-specific site. A golf course in San Timoteo Canyon is also shown on the land use Diagram in a non-specific location.

Guiding Policies: Parks and Recreational Open Space

- 7.10a Create a high quality, diversified park system that enhances Redlands' unique attributes.
- 7.10b Provide adequate park acreage and recreation facilities conveniently accessible to all present and future residents.
- 7.10c Enhance the presence of natural and recreational opportunities in the City and increase park use by selecting new, highly accessible locations for parks.
- 7.10d Identify the needs of special user groups, such as the disabled and elderly, and address these in park and recreation facility development.
- 7.10e Minimize substitution of private recreation facilities for developer fee payment or park dedication to ensure that a public park system will be permanently available to the entire community.
- 7.10f Encourage preservation of natural areas within and outside the Planning Area as regional parks or nature preserves.
- 7.10g Review park standards periodically to determine whether needs are being satisfied and how long-term costs will be met.
- 7.10h Continue cooperative efforts with the Redlands Unified School District through joint use agreements for park and recreational facilities. Locate new neighborhood parks in conjunction with elementary or middle schools wherever feasible.

Although school/park areas are not available for public use at all times and do not contain complete park facilities, substantial cost savings justify shared use.

- 7.10i Equitably share the cost of improved park standards between existing and new residents, businesses, and property owners.

Implementing Policies: Parks and Recreational Open Space

- 7.10j Provide 5 to 6 acres of neighborhood, community, and city park area for each 1,000 Planning Area residents. This standard excludes specialized, low use park acreage and includes half of the area of school sites.

If all parks designated on the General Plan Diagram are acquired, there will be 7.9 acres per 1,000 residents at buildout vs. 7.2 acres existing (developed and undeveloped) in 1994 (City population only). When considering only developed parks, (189 acres) there are approximately 3 acres per 1,000.

- 7.10k Where suitable land is available at acceptable cost, provide all residential areas with a neighborhood/community park (8 or more acres where available).
- 7.10l Calculate park fees to enable purchase of acreage and provision of off-site improvements for 5 acres of park land per 1,000 residents added.

State law (Quimby Act) allows the City to require dedication or payment of in-lieu fees sufficient to buy and provide off-site improvements for a maximum of 3 acres per 1,000 new residents if existing parks are at or below this standard and up to 5 acres if a higher standard has been maintained. Fees, even if updated annually, are rarely sufficient; appraisals at the time a final

subdivision map is recorded are authorized by the law.

- 7.10m** Continue levying a parks and open space fee on nonresidential development commensurate with expected use of park and recreational facilities by employees.

A number of California cities collect such fees.

- 7.10n** Seek any available State and federal grant assistance in implementing the parks and open space proposals of the General Plan.

State bond funds available to Redlands have been committed (1991).

- 7.10o** Use available techniques to minimize acquisition costs.

Sale below appraised market value ("bargain sale") to a non-profit land trust that re-sells to the City can provide tax savings to the seller.

- 7.10p** Continue annual review of five-year plan recommendations by Strategic Planning/Open Space Committee of Parks Commission for needs and available funding mechanisms.

- 7.10q** Continue the dedication of land along the Santa Ana bluff for a continuous linear park to be used as picnic and scenic area, and trail.

- 7.11r** Encourage the development through acquisition and/or dedication of a linear park along the Zanja and the railroad right-of-way.

7.11 Trails

The City of Redlands has a long tradition in the use of trails by bicyclists, equestrians, hikers, and joggers. Many trails are unmarked or unidentified. Other trail systems are identified such as the beautifully illustrated Bridle Trail map of Isaac Ford commissioned in 1941 by the Chamber of Commerce. The existing trails can provide the framework for a system of scenic pathways that will enhance health, safety, and recreational enjoyment of the community.

A multi-use Master Plan of trails will expand and enhance individuals' opportunities for recreation, thereby improving the quality of life. With the increased awareness of the health benefits of walking and jogging, as well as the growing recreational use of bicycles, trails become more valuable to a greater portion of the community.

Concern about health is also reflected in the efforts to improve air quality. This has led to adoption of the Regional Air Quality Plan, from which policies have been adapted and included in the Health and Safety Element. Policies call for the provision of bicycle and pedestrian pathways to promote nonmotorized transportation and lessen dependency on private automobile use. These routes are to link activity centers to residential development. (See Section 8.12, Air Quality and Ground Transportation, and Section 8.14, Air Quality and Land Use.)

Trails can also serve as emergency evacuation routes in the event of a catastrophe that may make some trafficways impassable.

Rail and trail corridors designated on the General Plan Diagram have existing or proposed right-of-ways that at different locations and times may include either or both facilities. Five corridors are shown:

- ▶ Santa Ana Wash blufftop adjoining the proposed Scenic Drive;
- ▶ Santa Fe Railroad which provides freight service to Mentone and is proposed as a future commuter rail line;

- ▶ Mill Creek Zanja (Sankee), the historic irrigation ditch;
- ▶ San Timoteo Canyon adjoining the San Timoteo Creek; and
- ▶ Southern Pacific Railroad mainline.

A trails map was prepared by a City Council appointed Trails Committee and adopted by the City Council on October 7, 1992. The Trails Map (See Figure 7.1) identifies the general locations of Regional Trunk Trails and Primary Community Trails within the planning area. The Committee recognized four major types of trails; Regional Trunk Trails, Primary Community Trails, Secondary Community Trails and Connector Trails. The definition of these types of trails are as follows:

- Regional Trunk Trail - a trail which originates out of city and terminates out of city, but passes through the City of Redlands. Generally considered to be of regional significance, linking cities to regional amenities. This type of trail usually has been defined by agencies beyond Redlands, such as San Bernardino County. Examples of this kind of trail are the Santa Ana River Trail and the San Timoteo Creek Trail.
- Primary Community Trail - a trail which originates within the City of Redlands and terminates at one of the following:
 - a. an entrance to a Regional Trunk Trail (thus giving the community access to the regional amenities).
 - b. a major trail traffic generator (recreational site, school, park, equestrian center, business district).

Examples of this kind of trail are the Downtown Zanja Greenway and children's trail, the Sunset Hills trails connecting the equestrian center and residential area with the regional trail, and the trails described in the East Valley Corridor Plan.

- Secondary Community Trail - (a.k.a. local feeder trail) a trail which provides a local neighborhood with routes for recreation, or access to primary trails. Usually this type originates within a residential area and experiences lighter usage than a primary trail. Optimally, these trails are designed in a loop configuration and located in scenic areas to maximize pleasurable usage.

Examples of this kind of trail are the loops within the Sunset Hills Development which augment the primary trails.

- Connector Trail - a short section of trail route which allows the linkage of two sections of primary and/or secondary community trail. This designation carries the connotation of short linkage which might not be of the same standard as a formal primary or secondary trail, but which allows users to "connect" with the nearby trail.

Examples of this type of connector trail might be a driveway, roadway, or bridge.



Trail locations on this map are non-site specific on any given property. They are subject to relocation as final development plans are approved. Property owners shall have discretion regarding the exact location of the trail on their property. Modifications shall be consistent with the overall planned Trail connections to assure continuity of the system. (See section 7.11 Open Space/Recreation Element Trails.)

Redlands Planning Area
GP Figure 7.1

Trails Map



The Trails Map within the General Plan includes only Regional Trunk Trails and Primary Community Trails. Secondary Community Trails and Connector Trails will be incorporated in the Trails Master Plan as described in Implementing Policies 7.11d and 7.11k.

The following Regional Trunk Trails and Primary Community Trails are depicted on the Trails Map:

Regional Trails

1. Santa Ana Regional Trail
2. San Timoteo Creek Regional Trail
3. Live Oak Canyon Regional Trail
4. Crafton Hills/Zanja Peak Regional Trail
5. South Hills Regional Trail Along Edison Easement

Primary Community Trails

1. Downtown Zanja Trail
2. East Valley Corridor Trails
3. Deer Path Trail and Sunset Hills Signature Ridge Trail
4. Oak Grove Trail
5. Pilgrim Road Trail
6. Garden Street to Panorama Point Trail
7. Wabash to Sand Canyon Trail
8. Caroline Park to Oak Grove Trail
 - a) Ridge Trail
 - b) Edgemont Climb Trail
 - c) Hermit Canyon Trail
 - d) Quail Canyon Trail
9. Crafton Hills Reservoir Trail
10. Church Street to Panorama Point Trail
11. Alessandro Bridge to Treemont/South Hills Trail

Guiding Policies: Trails

- 7.11a** Create and maintain a system of trails serving both recreational and emergency access needs. The system is to accommodate walking, hiking, jogging, and equestrian and bicycle use.
- 7.11b** Prepare a Trails Plan depicting regional multi-purpose trails, community trails, local feeder trails, and including design standards.
- 7.11c** It is the intent of the General Plan Trails Component of the Open Space and Conservation Element, and the policy of the implementing agency to work with landowners to develop, acquire, and maintain the trail system.

Implementing Policies: Trails

- 7.11d** The Trails Plan (Figure 7.1) designates and generally locates the Regional Trunk Trails and Primary Community Trails within the Redlands Planning Areas. A Trails Master Plan should be developed to show all types of trails including Secondary Community Trails and Connector Trails.
- 7.11e** Establish guidelines and standards for trails.

1. The first step in the process of the development of a new product is the identification of a market need. This is done by conducting market research, which involves gathering information about the target market and its needs. This information is then used to develop a product that meets the needs of the market.

2. The second step in the process is the development of a business plan. This plan outlines the company's goals, objectives, and strategies for achieving them. It also includes information about the company's financial needs and how they will be met.

3. The third step in the process is the development of a prototype. This is a preliminary version of the product that is used to test the design and to gather feedback from potential customers. The prototype is typically made of a material that is easy to work with and that can be modified easily.

4. The fourth step in the process is the development of a marketing plan. This plan outlines the company's strategies for promoting the product and reaching its target market. It includes information about the company's advertising, sales, and distribution efforts.

5. The fifth step in the process is the development of a production plan. This plan outlines the company's strategies for manufacturing the product. It includes information about the company's equipment, materials, and labor resources.

6. The sixth step in the process is the development of a distribution plan. This plan outlines the company's strategies for getting the product to its target market. It includes information about the company's distribution channels and its logistics.

7. The seventh step in the process is the development of a sales plan. This plan outlines the company's strategies for selling the product. It includes information about the company's sales force and its sales techniques.

8. The eighth step in the process is the development of a customer service plan. This plan outlines the company's strategies for providing customer support. It includes information about the company's customer service team and its service procedures.

9. The ninth step in the process is the development of a financial plan. This plan outlines the company's financial needs and how they will be met. It includes information about the company's revenue, expenses, and cash flow.

10. The tenth step in the process is the development of a legal plan. This plan outlines the company's legal needs and how they will be met. It includes information about the company's legal structure, its contracts, and its intellectual property.

11. The eleventh step in the process is the development of a risk management plan. This plan outlines the company's strategies for identifying and managing risks. It includes information about the company's risk assessment and its risk mitigation strategies.

12. The twelfth step in the process is the development of a monitoring and evaluation plan. This plan outlines the company's strategies for tracking the progress of the product development process and for evaluating the results. It includes information about the company's monitoring and evaluation methods and its reporting procedures.

13. The thirteenth step in the process is the development of a final report. This report summarizes the results of the product development process and provides recommendations for future projects. It includes information about the company's findings, its conclusions, and its recommendations.

14. The fourteenth step in the process is the development of a final presentation. This presentation is used to present the results of the product development process to the company's stakeholders. It includes information about the company's findings, its conclusions, and its recommendations.

15. The fifteenth step in the process is the development of a final plan. This plan outlines the company's strategies for implementing the product development process. It includes information about the company's implementation plan and its implementation procedures.

- 7.11f Establish agreement with public agencies and private entities for development and maintenance of trails in rights-of-way and utility corridors.
- 7.11g Encourage creation of a non-profit organization to assist in developing and managing the trails system.
- 7.11h Seek grants and alternative funding mechanisms for trail development and maintenance.
- 7.11i Consider referring projects to the Parks Commission for review and recommendations of trails.
- 7.11j Coordinate location of trails to relate to neighboring properties.
- 7.11k Review new development proposals for compliance with Trails Master Plan and provide for right-of-way dedication and improvement/development of trails.
- 7.11l Consider recreational amenities such as rest areas, benches, water facilities, and trail hitching posts to be incorporated in Master Plan trails.
- 7.11m Locate trail rights-of-way with concern for safety, privacy, convenience, preservation of natural vegetation and topography, and work with landowners on development proposals to incorporate and provide for continuous multi-use trail system.

Policy 7.21v in Section 7.21, Biotic Resources, specifies coordination of trail planning with habitat and species protection.
- 7.11n The trails incorporated in the 1972 General Plan shall continue to exist, as an interim policy, until the Trail Master Plan is adopted by City Council.
- 7.11o Expand street landscape standards to include trail landscape standards.

7.20 Preservation of Natural Resources

The natural resources for which policies of preservation have been designed include biotic resources (including vegetation, wildlife, and habitats), water resources, and energy resources. Preservation of each of these resources will contribute to the preservation of open space within the Planning Area. Waste management and recycling are also addressed in this section, since informed consumption can preserve natural resources by preventing overproduction of goods and by reduction in the production of nonrecyclable materials. In addition, the promotion of the reuse of recyclable materials can diminish the need for the use of virgin materials, and can aid in preserving as open space those lands that might otherwise be needed as landfill.

7.21 Biotic Resources

Prior to European settlement in the San Bernardino Valley, the Santa Ana River channel was lined with a leafy border of alders, sycamores, cottonwoods, and willows along an alignment which would now be centered in the Santa Ana Wash. The channel was a dominant landscape feature which contrasted with the Valley floor beyond, comprised of a series of dry, brush-covered areas separated by stretches of moist or swampy land. In general, prior to the introduction of widespread irrigation, which distributed water evenly across the area, the extreme dry and wet areas were more extensive than they are today.

The naturally occurring biotic communities within the Planning Area are principally defined by the climate, which is typical of Southern California inland areas. Mild winters, low annual rainfall, and prolonged, dry summers all profoundly influence the vegetative make-up and, consequently, the wildlife supported by it. Since

the time of European settlement, the vegetation has been dramatically altered, replaced by urban development and agriculture. Animal populations that have not been eliminated have been generally diminished, and most species have been displaced, suffering a loss of range. Remnants of native vegetation, found primarily in riparian areas, are today interspersed with introduced annual grasses, shrubs, or trees, and agricultural fields, all of which provide some habitat for remaining animals.

The Redlands Planning Area is fortunate in being surrounded by remnants of past natural communities, and by some of the surviving species characteristic of these habitats. Most of these valued habitats are found along waterways and serve as wildlife corridors in addition to habitat for the species which grow or dwell within them. To the north, the Santa Ana River Wash and Mill Creek provide habitat and function as wildlife corridors which connect the Wash and Creek habitats with the wildlands of the San Bernardino National Forest.

The Crafton Hills, whose slopes are covered primarily with introduced European species, perform an important role as a physical link between the Santa Ana River-Mill Creek-San Bernardino Mountains habitats and the Live Oak-San Timoteo canyons-Badlands area which frames the southern Planning Area. Wildlife, including larger mammals such as mule deer and mountain lion, are thought to traverse much of the corridor from the San Bernardino Mountains to the Badlands, a route they can travel in relative isolation from humans.

San Timoteo and Live Oak canyons each contain remnants of past natural communities of regional importance. The Badlands, while physically peripheral to the Planning Area, is ecologically linked with San Timoteo and Live Oak canyons, sharing some of the same vegetative associations and wildlife. San Timoteo Canyon Creek reconnects with the Santa Ana River west of the Planning Area, closing the circle which outlines a rough ring of habitat areas and wildlife corridors around the Planning Area.

The Zanja (known locally as the "Sankee") is a waterway which splinters to the southwest of Mill Creek's main channel north of the Crafton Hills, flowing through the heart of Redlands. In different reaches, the stream flows variously above and below ground, in concrete channels and along natural bottomed channels, and possesses varying vegetation, wildlife, and habitat values. Restoration of the Zanja along part or all of its length would be anticipated to improve its habitat values where it flows above ground. The Zanja joins with other drainages, finally flowing into the Santa Ana River west of the Planning Area. (See Section 8.40, Drainage and Flooding.)

Although comprehensive biological mapping for the Planning Area has not been prepared, GP Figure 7.2 and GP Table 7.3 show and define areas of identified valued habitat, wildlife corridors, and potential riparian restoration, as identified by the State Department of Fish and Game (DFG) and local environmental groups. General locations of special status species are also shown, where information was available. This figure is not intended to serve as a substitute for an onsite biotic resources inventory for specific development projects, but rather as a general reference suggesting the types of species and habitats which may be present.

Guiding Policies: Biotic Resources

7.21a Minimize disruption of wildlife and valued habitat throughout the Planning Area.

Ranging from "common" to a legal status of Endangered, Redlands' wildlife species and habitats are valuable biotic resources, among which are several species unique to the region. Implementing policies designed to achieve their continued viability are specified below.

7.21b Preserve, protect, and enhance natural communities of special status.

Eight natural communities of special status have been identified within the Planning Area (1995) and are shown on GP Figure 7.2. These include Riversidean Alluvial Fan Sage Scrub, Southern Coast Live Oak Riparian Forest, Southern Sycamore Alder Riparian Woodland,



GP TABLE 7.3

RARE, THREATENED, OR ENDANGERED SPECIES and SPECIES OF SPECIAL STATUS WITHIN,
ADJACENT TO, OR POSSIBLY PRESENT WITHIN THE PLANNING AREA¹

Natural Communities

RAFSS	Riversidean Alluvial Fan Sage Scrub
SCLORF	Southern Coast Live Oak Riparian Forest
SRS	Southern Riparian Scrub
SSARW	Southern Sycamore Alder Riparian Woodland
SWS	Southern Willow Scrub
CLORF	Canyon Live Oak Ravine Forest
SRF	Southern Riparian Forest
SCWRF	Southern Cottonwood Willow Riparian Forest

Plants

Map ID 2	Nevin's Barberry
Map ID 3	Santa Ana River Woolly Star
Map ID 4	Slender-horned Spineflower
Map ID G	Payson's Jewelflower
Map ID J	Parish's Bush Mallow
Map ID K	Perry's Spineflower

Birds

Unknown	Black-shouldered Kite
Map ID A	California Gnatcatcher
Unknown	Western Yellow Billed Cuckoo
Map ID B	Cooper's Hawk
Unknown	Ferruginous Hawk
Map ID C	Golden Eagle
Map ID 1	Least Bell's Vireo
Unknown	Long-eared Owl
Map ID L	Loggerhead Shrike
Unknown	Prairie Falcon
Map ID I	Tri-colored Blackbird
Unknown	Willow Flycatcher
Unknown	Yellow-breasted chat

Mammals

Map ID D	Los Angeles Pocket Mouse
Map ID E	Merriam's Kangaroo Rat
Map ID 5	Stephen's Kangaroo Rat

Reptiles

Map ID F	Orange-throated Whiptail
Map ID H	San Diego Horned Lizard

¹ Species without Map ID numbers have no known specific location but have been seen within the Planning Area.

Southern Willow Scrub, Southern Riparian Scrub, Canyon Live Oak Ravine Forest, Southern Riparian Forest, and Southern Cottonwood Willow Riparian Forest. These communities are remnants of past vegetative complexes which were more widely distributed, and provide habitat to a number of native creatures.

- 7.21c** Recognize the links between biotic resources in discrete locations throughout Redlands.

Although now divided by roadways and expanses of urban development, the remaining open space and undeveloped land within the Planning Area was once part of an interlinked regional ecosystem. The genetic flow between these areas persists, although at a greatly reduced level, and impacts on any portion of the system will affect the rest of the system. Environmental review for projects that will replace habitat with other uses should consider the impacts on seemingly remote sites as part of the cumulative impacts of a project, since study may show that remote sites are actually linked. The Master Biotic Management Plan is anticipated to document the ecosystem dynamics of the Planning Area.

- 7.21d** Preserve, protect, and enhance wildlife corridors connecting the San Bernardino National Forest, Santa Ana River Wash, Crafton Hills, San Timoteo/Live Oak Canyons, the Badlands, and other open space areas.

Without corridors allowing movement between discrete habitat areas, it is likely that lack of genetic diversity over time would lead to the smaller, isolated habitat areas becoming devoid of wildlife, or inhabited by individual members of species in a weakened state with little potential for survival or adaptation. The maintenance and enhancement of these corridors includes implementation of undercrossings, as specified below in Policy 7.21j. General locations of known corridors are shown on GP Figure 7.2.

- 7.21e** Preserve, restore, protect, and enhance riparian corridors throughout the Planning Area.

Riparian corridors not only serve as wildlife corridors, but also possess intrinsic habitat value and aesthetic appeal. Throughout California significant amounts of riparian vegetation have been lost to urbanization in the last century, although a move towards urban stream restoration is underway in the State, slowing the losses. Programs include liberating underground streams and vegetation plans, often coordinated with the provision of streamside trails. Grants are available through the Department of Water Resources' Urban Stream Restoration Program for projects which restore or enhance the aesthetic, recreational, fish, and wildlife values of waterways. Planning Area riparian corridor locations may be included in the Master Biotic Management Plan.

- 7.21f** Where feasible, landscape public areas using native vegetation.

Native vegetation provides habitat for local species and tends to aid in water conservation, since native species are drought tolerant or resistant. Public areas include parkways, median strips, parks, and other City-owned or maintained green spaces. Revision of the City's Official Street Tree List is specified below, in Policy 7.21w.

Implementing Policies: Biotic Resources

- 7.21g** Prepare a Master Biotic Management Plan, including an inventory of protected and common species, and species management plans, where relevant.

The General Plan specifies a general level of species protection based on available published information, and where habitats or locations have been mapped. The Plan and related MEA/EIR provide a point of departure for more detailed, area-specific studies, which could include site inventories and maps, and may require that consulting biologists perform further study to design management plans. Additional levels of detail could be provided specifying the hitherto unknown locations of protected and common species, wildlife corridors, riparian corridors and wetlands, and documenting the ecosystem dynamics of the Planning Area.

- 7.21h** Require a biological assessment of any proposed project site where species or the habitat of species defined as sensitive or special status by the Department of Fish and Game or the U.S. Fish and Wildlife Service might be present.

Listings of sensitive and special status species change from year to year, but might include birds, animals, and plants such as the California Gnatcatcher, Least Bell's Vireo, San Diego Horned Lizard, Stephen's Kangaroo Rat, Nevin's Barberry, Parish's Bush Mallow and Payson's Jewelflower, among those special status species thought to be present within the Planning Area in 1991.

- 7.21i** Require that proposed projects adjacent to, surrounding, or containing wetlands, riparian corridors, or wildlife corridors be subject to a site-specific analysis which will determine the appropriate size and configuration of a buffer zone.

The size and configuration of the buffer zone should be based on the characteristics and importance of the wetlands, riparian corridor, or wildlife corridor, and the proposed project, and determined in consultation with the Department of Fish and Game, U.S. Fish and Wildlife Service, and U.S. Army Corps of Engineers, as appropriate. The purpose of the buffer zone will be to ensure the long-term viability of the habitat area, and continued presence of wildlife.

- 7.21j** Construct freeway and arterial street undercrossings where necessary after identification of and as a part of establishment and preservation of wildlife corridors.

To enable wildlife to move freely throughout the Planning Area, undercrossings beneath the freeway or major thoroughfares may be necessary. This is particularly evident between the Crafton Hills and San Timoteo/Live Oak canyons-Badlands area, which are separated by the I-10 Freeway. Undercrossings should be designed in consultation with biologists who understand the requirements of the species.

- 7.21k** Enhance and restore the Zanja and tributary drainages as riparian corridors, where feasible, to provide habitat as well as recreational and aesthetic value.

The Zanja crosses the Planning Area in both underground and aboveground segments, with varying habitat value. Channel restoration with native vegetation would be expected to improve habitat.

- 7.21l** Encourage the U.S. Army Corps of Engineers to design "soft" channel and sedimentation basins to provide habitat as well as recreational and aesthetic value.

A component of the Santa Ana Project is the construction of a 5-mile long concrete channel from San Timoteo Canyon to the Santa Ana Wash. An alternative natural channel would preserve existing wildlife corridors and provide linear parks. The natural channel also allows normal groundwater recharge.

- 7.21m** Work with the Crafton Hills Conservancy to preserve, enhance, and maintain the Crafton Hills as an ecosystem.

Policy 8.50i within Section 8.50, Health and Safety Element, Geology, Seismicity, and Soils, specifies preservation of slopes greater than 30 percent as open space. The Conservancy is committed to habitat preservation in the Crafton Hills, as well as enhancement of open space and recreational values. The Crafton Hills may be an appropriate target for a vegetation management or enhancement program; the area contains remnants of past vegetative associations but is generally covered with introduced species. The cultivation of native species could enhance habitat value, and might decrease fire risk through the reduction of flammable grasses.

- 7.21n** Coordinate open space and habitat preservation in San Timoteo and Live Oak canyons with Riverside County.

Although each is a cohesive geographic area unto itself, politically both San Timoteo and Live Oak canyons are bisected. Both canyons straddle the boundary between San Bernardino and Riverside counties. To achieve consistency in neighboring land uses, planning between the counties and the City of Redlands must be coordinated. Riverside County's Multiple Species Habitat Conservation Plan conceptually addresses the future of the area just to the south. The Badlands are proposed for inclusion in a reserve, which would stretch from the Riverside County - San Bernardino County border south to the San Jacinto Mountains. The proposed reserve includes upstream portions of San Timoteo Creek, which are identified as providing significant riparian habitats.

- 7.21o** Coordinate with the City of Yucaipa on habitat preservation along Yucaipa Creek and in Live Oak Canyon throughout its length.

Live Oak Canyon contains special status Southern Coast Live Oak Riparian Forest, as well as other habitat values. The Yucaipa sewage treatment plant, upstream of Live Oak Canyon, is currently releasing treated wastewater into Yucaipa Creek, which contributes to the preservation of Live Oak Canyon's verdant habitat areas. There is some indication that Yucaipa may in the near future engage in a greater water recycling effort, and the San Bernardino Valley Municipal Water District notes that, if successful, this effort would be expected to diminish outflows through Live Oak and San Timoteo canyons. Reduced flows could have habitat impacts.

- 7.21p** Work with the developers, biologists, and residents to implement the *Sunset Hills Deer Management Plan* in San Timoteo and Live Oak Canyon areas.

As a mitigation measure for approval of the Southeast Area Plan, preparation and implementation of a deer management plan was specified. The Sunset Hills Deer Management Plan was drafted to fulfill part of this requirement. Three conditions are described for retention of deer use within the Sunset Hills development: the Badlands deer population must persist into the indefinite future, deer must have suitable access to the area, and suitable deer habitat must be present within the development. These requirements suggest that the City should coordinate with Riverside County on land use within the Badlands, should identify and maintain wildlife corridors for deer movement, and should review development plans carefully to ensure that adequate open space within project areas is preserved.

- 7.21q** Support the U.S. Army Corps of Engineers' efforts to establish a preserve for the Santa Ana River Woolly Star as mitigation for habitat anticipated to be lost as a result of construction of the Seven Oaks Dam, and work with concerned agencies and organizations to preserve the species in the Planning Area.

Construction of the Seven Oaks Dam is expected to reduce Woolly Star habitat, which is scattered throughout the Santa Ana River Wash. Environmental review documents prepared for the Seven Oaks Dam project identified several sites in the Wash north of Redlands that may be suitable for the establishment of a Woolly Star preserve. This silver-grey plant with its characteristic star-shaped flowers is unique to the area, and is considered Endangered by both the State and Federal governments.

- 7.21r** Work with concerned agencies and organizations to preserve the Slender-horned Spineflower.

The Spineflower is considered a Federal and State Endangered Species, whose remaining known populations within the Planning Area are clustered around Orange Street north of Redlands, within the Santa Ana River Wash. According to the Scoping Project for the Santa Ana River Resource Management Plan (August 1988), there has never been a careful and thorough survey of the distribution of the Spineflower.

- 7.21s** Coordinate aggregate resource extraction with habitat preservation and protection of plant and animal species.

Policy 7.42b specifies preparation and assured implementation of a rehabilitation plan for aggregate extraction as a condition of approval of mining. The rehabilitation plan should address protection of biotic resources.

- 7.21t** Evaluate the habitat value of agricultural fields and groves prior to conversion to other uses; if habitat value is significant, consider a development plan which incorporates open space uses of similar value.

Although agricultural fields and groves are not "native" habitat, their structure and composition may mimic certain natural environments, some of which have been greatly reduced in area over the last century. A variety of displaced species thus forage or nest in these areas. For example, raptors, some of which are species of special status, are thought to hunt in agricultural fields, and Mule Deer and other mammals may browse in or pass through orchards.

- 7.21u** Make information available to residents concerning the presence and condition of special status species.

Without a larger perspective, individuals may not understand that their actions can jeopardize the condition of a plant or animal species. For example, one of the greatest threats to the San Diego Horned Lizard -- a special status species known commonly as a "horned toad" -- is confinement by humans, benignly intending to keep the creature as a pet. A public information campaign could consist of informational handouts made available at City offices or through the County Museum.

- 7.21v** Coordinate trails with preservation of habitat and protection of species sensitive to human intrusion.

Trails policies are specified in Section 7.11, and Policy 7.11m emphasizes a concern for preservation of natural vegetation and topography. The open space values which are attractive to trails users are often a result of the presence of wildlife and native vegetation, both of which may be sensitive to human disturbance. Planning for both values will ensure compatibility.

- 7.21w** Expand the City's Official Street Tree List to incorporate native trees.

The current Official Street Tree List includes a number of species from the Eastern United States, Asia, South America, the Pacific Islands, and the Mediterranean. Only a few species, including

the California Fan Palm, Knobcone Pine, and Modesto Ash are indigenous to the Western United States. As noted above in Policy 7.21f, native trees tend to tolerate drought, need less water than introduced species, and have a higher habitat value for native wildlife.

- 7.21x Explore opportunities to have nature displays along the Santa Ana River in conjunction with trails to provide environmental and habitat information.

7.22 Water Supply and Conservation

Entitlement to local water supplies includes surface water from Mill Creek and the Santa Ana River, and groundwater from wells throughout the Planning Area. As described in Section 8.20, contamination restricts the amount of groundwater available for potable use without treatment. Imported State Water Project (SWP) water is potentially available, although it is more costly than local sources and, as a regional political issue, is subject to continuing debate. Continued use of SWP Water will in time degrade water quality within the basin and create problems with wastewater discharge. The southeast portions of the City are served by Western Heights Water Company.

The long-term water supply for the City -- and for the region -- is not secured. An updated City of Redlands Water Master Plan will examine the long-term demand for, and availability of, local ground and surface waters and SWP supplies. Cumulative development in Southern California has far exceeded the availability of local water supplies, and has increased reliance on imported water. The availability of SWP water over the long-term depends in part on environmental and political variables which are not under the City of Redlands' direct control. Conservation and cooperation on a regional basis will be the key to the future quality of life.

In 1991, the fifth consecutive year of lower-than-normal rainfall in California, municipalities throughout the State implemented water conservation programs. Conservation measures, such as those described in Ordinance No. 2151, Water Conservation Plan, are intended to decrease consumption and allow existing water resources to go further. While many voluntary conservation measures depend on changes in individual behavior, larger organized efforts backed by investment -- such as construction of infrastructure to facilitate the use of reclaimed wastewater and non-potable water for irrigation of landscaping and agriculture -- can lead to substantial conservation of water resources.

Guiding Policy: Water Supply and Conservation

- 7.22a Minimize dependence on imported water by increasing entitlement in local surface sources, using wise groundwater management practices, conservation measures, and the use of reclaimed wastewater and nonpotable water for irrigation of landscaping and agriculture, where feasible.

The availability of imported State Water Project water over the long-term depends in part on environmental and political variables which are not under the City of Redlands' direct control. To ensure water service to all parts of the Planning Area, an emphasis must be placed on the use of local water supplies.

- 7.22b The City of Redlands overlies a portion of the Bunker Hill Groundwater Basin. This Basin contains in excess of 3 million acre feet of water. This local supply source must be cleaned up, used to its full potential, and protected from outside interests. This requires the cooperation of all agencies within the Basin.

- 7.22c The City of Redlands recognizes that the water sources that constitute the water supply of the City of Redlands are a limited and renewable resource subject to increasing demands; that the conservation and efficient use of urban water supplies are of statewide concern; but that planning for that use and the implementation of those plans can best be accomplished at the local level.

- 7.22d The City of Redlands believes it is in the best interest of its citizens to conserve the highest quality of water reasonably available to it for domestic use. Effort by its water users to achieve water conservation and efficient use of water will produce a sustainable lifestyle consistent with Redlands' unique heritage and community goals.

Implementing Policies: Water Supply and Conservation

- 7.22e Update the City of Redlands' Water Master Plan, including an assessment of regional demand and availability of water resources through buildout, and a comprehensive groundwater management program.

The City's 1981 Water Master Plan, updated in 1984, needs revision as a result of recent and planned population growth and development. The Water Master Plan assumed a population of about 80,000 in Redlands in the year 2000. Current 1995 City population is about 67,000. The Water Master Plan should include a component which studies groundwater issues and implements a comprehensive groundwater management program, as recommended by the Redlands 2000 report.

- 7.22f If the City's updated Water Master Plan shows water supply to be inadequate, increase supply and reduce demand or curtail development until adequate supplies are secured.

Priority would be given to increasing water supply and reducing water demand. Restrictions could be universal, with no new service connections throughout the Planning Area, or restrictions could be area-specific, to prevent costly infrastructure expansion and discourage growth in yet-unserved areas, until new supplies are developed.

- 7.22g Work with the Bear Valley Mutual Water Company, San Bernardino Valley Municipal Water District, and Western Heights Water Company to implement water conservation measures as specified in Redlands' Water Conservation Plan, Ordinance No. 2151.

An April 1991 resolution adopted by the San Bernardino Valley Municipal Water District (SBVMWD) requires Redlands and other District customers to establish and maintain a water conservation program as a prerequisite to continued use of State Water Project water. Redlands Water Conservation Plan, Ordinance No. 2151 was adopted pursuant to City's Urban Water Management Plan and State laws. The ordinance contains four stages of conservation, from voluntary conservation measures to different levels of mandatory compliance. The use of reclaimed wastewater is indirectly encouraged by exempting the use of reclaimed wastewater for golf course irrigation from irrigation restrictions. The most extreme stage of the Water Conservation Plan prohibits the issuance of new service connections and meters.

- 7.22h Coordinate with the Western Heights Water Company, East Valley Resource Conservation District, and SBVMWD to educate the public and encourage participation in voluntary water conservation measures.

The availability of information and a sense of participation in a larger cooperative effort can lead to significant changes in individual behavior.

7.23 Energy Resources and Conservation

Utilities Facilities

Southern California Edison (SCE) Company provides electrical energy and the Southern California Gas (SCG) Company provides natural gas service to the Planning Area.

SCE Company. SCE is connected with an electrical energy network known as the "Pacific Intertie grid," allowing it to import electricity from anywhere in the Western United States, if needed. Within San Bernardino County, SCE operates several thermal (oil or gas-fired) generating stations, including the significant Etiwanda power plant, and, on the south side of the mountains, eight small hydroelectric power plants. The Etiwanda power plant represents approximately 10.5 percent of the total SCE generating capacity in the County, while the hydroelectric contribution is less than one percent of the total capacity.

Within the Planning Area or immediate vicinity, SCE operates one hydroelectric facility (Mill Creek No. 1), five substations (Redlands, Smiley, Mentone, Tennessee, Zanja), one steam plant (San Bernardino), several 220 kilovolt transmission lines (portions of the Devers-San Bernardino Nos. 1 and 2, San Bernardino-Vista, Etiwanda-San Bernardino, Devers-Vista Nos. 1 and 2), and the Redlands Service Center. The 220 kilovolt transmission lines run along the western edge of the Planning Area and through the southwestern corner, stretching south from the San Bernardino Steam Plant, then east of Mountain View Avenue, and turning southeast to parallel San Timoteo Canyon Road along the southern slopes of the Canyon. These facilities are shown on maps on file with the City of Redlands.

SCG Company. SCG serves the majority of the County, and all of the Planning Area. Natural gas -- not produced within the Redlands Planning Area -- is produced in small quantities in the Chino Hills, although it is primarily imported from elsewhere in California or from out of State.

High pressure gas lines (greater than 60 pounds) run along Mountain View Avenue on the western edge of the Planning Area, turning southeast at Mission Road. At California Street the lines jog north, continuing east and south along Orange Avenue to Tennessee Street, State Street, Eureka Street, Redlands Boulevard, Reservoir Road, Wabash Avenue, Panorama Drive, and entering Yucaipa along Hampton Road and Dunlap Boulevard. Another high pressure gas line stretches along Sand Canyon Road and Crafton Avenue. Smaller gas lines carried by pipelines ranging from three to eight inches in diameter are distributed throughout most of the Planning Area. These facilities are shown on maps on file with the City of Redlands.

Energy Conservation

Energy conservation may also be viewed as a potential energy resource, since the prudent use of energy will allow greater utilization of existing resources. Conservation might include such measures as reduced demand and reduction in wasted energy, recycling, and development of new forms of energy production.

Reduced demand and reduction in wasted energy. Reducing demand and reducing wasted energy might include residential, commercial, and industrial educational outreach programs designed to inform the consumer about options for energy conservation, and energy-efficient architectural design. Transportation-related measures which lead to energy conservation might include urban design and land use patterns which reduce trips, minimizing fossil fuel use, and Transportation Systems Management (TSM) and Transportation Demand Management (TDM) measures, as described in Section 5.

Recycling. Recycling is discussed in detail in Section 7.24, and in the Source Reduction and Recycling Element. Recycling resources saves energy, since the recycling process tends to use less energy than primary production of resources. This is true of all resource types, from the more commonly recycled items such as glass, paper, aluminum, and tin to fossil-fuel-based resources such as plastics and automobile-related waste oils.

New forms of energy production. Cogeneration, waste-to-energy conversion, and development of solar or wind energy may all be possible for portions of the Redlands Planning Area. Development of cogeneration and waste-to-energy conversion might be viewed as conservation measures, since they utilize waste products which would otherwise require an input of energy for disposal. Solar or wind energy may be viewed as potentially energy conservative since the resources are "free" and unlimited, compared to nonrenewable resources, which could then be conserved for energy production in the future.

Guiding Policies: Energy Resources and Conservation**7.23a** Conserve scarce or nonrenewable energy resources.

Nonrenewable resources such as fossil fuels are considered scarce in the long term, since they are finite. Many conservation measures rely on voluntary individual behavior for implementation, although some measures have the support of governmental bodies. For example, State law requires the incorporation of energy conservation features in the design of all new site development and construction.

7.23b Support San Bernardino County in implementation of its energy-related policies.

County policies emphasize active participation in current and future energy provision and conservation.

7.23c Consider energy efficiency in architectural design.

A number of past environmental documents on portions of the Redlands Planning Area have additionally specified energy-reducing measures related to architectural design and project orientation. Among those documents which can be consulted for detailed recommendations are the Crafton Hills Planned Unit Development DEIR (1984), Redlands Southeast General Plan Amendment FEIR (1987), Tentative Tract 13294 DEIR (1988) and the East Valley Corridor Specific Plan FEIR (1988).

Implementing Policies: Energy Resources and Conservation**7.23d** Coordinate with Southern California Edison Company and Southern California Gas Company to educate the public about the need to conserve scarce energy resources.

Residential, commercial, and industrial educational outreach programs can present consumers with options for energy conservation. Dissemination of information can have a significant impact in reducing consumption, as awareness by individuals and businesses leads to changes in behavior.

7.23e Minimize energy consumption attributable to transportation within the Planning Area.

Policies in Section 5, the Circulation Element, commit the City to Transportation Systems Management (TSM). When implemented, TSM measures are expected to minimize trips, thus minimizing Planning Area energy consumption attributable to transportation.

7.23f Revise applicable City Codes to incorporate criteria for energy efficient design.**7.23g** The City shall implement and enforce Title 24 building standards to improve energy efficiency in new or substantially remodeled construction.**7.23h** Encourage the investigation and utilization of alternative energy sources to be integrated in individual project designs.**7.24** **Waste Management and Recycling**

Due to concerns about the shrinking availability of landfill space, the State has passed legislation intended to address the problem at its source. Assembly Bill 939, the California Integrated Waste Management Act of 1989 and its amendments, requires every City and County in the State to prepare a Source Reduction and Recycling

Element (SRRE) that identifies how the jurisdiction will meet the mandatory waste diversion goals set by the State of 25 percent by 1995 and 50 percent by 2000.

AB 939 and its amendments also requires every jurisdiction to develop a Household Hazardous Waste Element (HHWE) to plan for the proper management of hazardous wastes generated by households. The HHWE states that it is the City's objective to reduce the disposal of household hazardous waste in landfills through collection programs, landfill screening, and encouraging citizens to reduce the generation of such wastes, and promoting markets for household hazardous waste recycling.

The City of Redlands' SRRE and HHWE were developed in response to AB 939. The SRRE has been deemed adequate by the California Integrated Waste Management Board (CIWMB), and a final modification was made as required by the regulations to the 1990 waste stream data. However, due to changes in the regulations for solid waste management, the SRRE and HHWE can only be relied upon as guidance documents. As a result, the City is required to submit an annual status report to the State of programs and program performance.

Solid Waste

According to the SRRE, approximately 77,400 tons of waste was generated in the City of Redlands in 1990. Of these, 67,800 tons were disposed, and 9,600 tons were diverted, resulting in a diversion rate of 12.4 percent. The single largest component of the waste disposal stream is paper (42.4 percent) followed by other organics (23.3 percent), and yard waste (13.5 percent).

Almost all waste disposed by generators in the City is hauled by the City of Redlands Municipal Utilities Department, Solid Waste Division, as a public service. Two City annexation areas are serviced by private haulers. The City collected solid waste is disposed of at the California Street Landfill. Sources are 50 percent from residential, 42 percent from commercial, and eight percent from industry. A small amount of waste is hauled directly to County landfills by Planning Area residents and other entities.

The City has a curbside recycling program which provides pickup service of newspapers, aluminum cans, glass, cardboard and plastics, from approximately 16,000 homes. As of mid 1995, yard waste is collected from 2,100 homes. (This program is planned for expansion City wide.) In addition, the City has one drop-off center, three reverse vending machines, and a City wide office paper recycling program. There are a number of community sponsored activities also responsible for waste recycling. About 100 Redlands businesses participate in a City-sponsored office paper collection program, and cardboard recycling is provided for select businesses. Redlands also has a residential curbside collection program for Christmas trees, which are composted. The City also provides support to residents for backyard composting, recycling of appliances, and free community clean-up days.

Hazardous Waste

Household hazardous waste frequently ends up in landfills that are not intended for receipt of hazardous materials. Such materials include such common items as motor oil, weed killers, household cleaners, wood preservatives, paints and paint thinner, auto and furniture polish, chemical drain cleaners, pesticides and fertilizers, and pool supplies. It is estimated that .7 percent of the City's total waste disposal stream (by weight) is comprised of household hazardous waste.

San Bernardino County has been providing services related to household hazardous waste management since 1984. These include the maintenance of permanent collection centers (one of which is in Redlands), periodic one-day collection events, a public education and outreach program, and a load-checking program at the area's

County-owned landfills. The City intends to sign a Memorandum of Understanding with the County to cooperate with the administration of a Countywide Household Hazardous Waste management program in addition to the establishment of a City-operated permanent collection center. The City conducts screening at the California Street Landfill to reduce disposal of household hazardous waste at this site.

Other types of hazardous materials, such as pesticides or herbicides, may enter the environment indirectly. See Section 8.20, Water Quality, for a discussion of toxic chemicals accidentally introduced into the groundwater.

Guiding Policy: Waste Management and Recycling

- 7.24a** Reduce the generation of solid waste, including household hazardous waste, and recycle those materials which are used, to slow the filling of local and regional landfills.

As of 1995 solid waste is hauled by the City to the California Street landfill. Planning Area residents also use the County's Solid Waste Disposal Facility (landfill) in San Timoteo Canyon.

Implementing Policy: Waste Management and Recycling

- 7.24b** Implement measures specified in the Source Reduction and Recycling Element and the Household Hazardous Waste Element.

Adopted by City of Redlands in response to AB939 on August 2, 1994. Approved by the State on 1/25/95.

- 7.24c** Meet the mandatory waste diversion goals set by the State of 25 percent by 1995 and 50 percent by 2,000; reduce landfill disposal of household hazardous waste as much as feasibly possible.

- 7.24d** Examine alternatives for reuse of the California and San Timoteo Canyon Landfill sites after their closures.

As discussed in Section 7.10, a regional park might be one appropriate use of the site. To guarantee the safety of future site users, Policy 8.30d, Health and Safety Element, requires that methane gas monitoring will continue even after landfill closure. Near-term closure could be as early as mid-1998, although the City is considering expansion to the year 2000, and beyond to 2015. The San Timoteo Landfill has permitted refuse capacity to the year 2016.

- 7.24e** Mitigate impacts associated with expansion of existing landfills or development of new landfills to include effects on streets and highways, drainage systems, groundwater, air quality, natural resources, aesthetics, and property maintenance. Issues of peak tonnage, number of trips and types and mix of vehicles accessing the site should be assessed when considering traffic impacts. Air quality issues should include those that pertain to dust and odors. Property maintenance issues include problems of illegal dumping and loose refuse.

7.30 Preservation of Archaeologic and Paleontologic Resources

Although archaeologic and paleontologic resources do not fall under the rubric of natural resources, they are protected under the California Environmental Quality Act as cultural resources. Many archaeologic and paleontologic finds will occur in remaining, unexcavated open space areas within and adjacent to the Planning Area, and this fact, together with the need for strategies for the conservation of these resources, places the discussion of these cultural resources here in the combined Open Space and Conservation Element. Historic resources are considered more fully in Section 3.

The Serrano and Gabrielino. Prior to the arrival of Spanish Europeans, the Redlands Planning Area is thought to have been populated for thousands of years by the Serrano and Gabrielino peoples. Although the precise details of their lives are shrouded in time, remnants of their lifeways indicate settlement and resource procurement locations at or adjacent to reliable water sources. Likely areas for finding artifacts include springs and streams such as San Timoteo Canyon Creek, Yucaipa Creek in Live Oak Canyon, tributaries and their canyons, and adjacent to larger water bodies, such as the bluffs, terraces, and hillsides above the Santa Ana River and Mill Creek.

The Zanja. At the instigation of Franciscan missionaries, in 1820 the Serrano and Gabrielino constructed a 12-mile-long irrigation ditch, connecting the fields surrounding the Gauchama Mission Station with Mill Creek, to the east. Water from this ditch was used for domestic purposes, as well as for irrigation of the first crops planted in the San Bernardino Valley. The ditch has had several names to include the Zanja and the Sankee. The Zanja is said to be the only irrigation ditch constructed and maintained by native peoples for their own use in California during the Spanish and Mexican periods of rule.

Archaeological survey. The California Archaeological Information Center (AIC), housed in the San Bernardino County Museum, estimates that less than 10 percent of the urban area has been surveyed for archaeological finds, and perhaps 25 percent of the rural portions of the Planning Area has been surveyed. Despite the lack of systematic survey, the locations of some resources are known, although to protect these resources, the precise locations of these sites are available to the public only on a restricted basis. To allow a quick visual scan of potentially sensitive areas, however, the City and the AIC have prepared an Archaeological Resource Sensitivity Map at a general scale.

Archaeological Resource Sensitivity map. This map was developed by the AIC in conjunction with the City of Redlands, and is reproduced in the MEA as MEA Figure 10.1. It is intended to be used to quickly determine whether or not an application for development is located within an archaeologically sensitive area, defined as an area which may contain artifacts or human remains below the earth's surface. When an application is received, City planners check the project location. Projects found to be within a sensitive area require that the staff notify the applicant and send copies of the application to the AIC. After review, the AIC will either determine that no further action by the applicant is necessary, or indicate that the applicant should hire an outside consultant to develop an archaeological resource mitigation plan.

MEA Figure 10.1 shows that most of the Santa Ana River Wash, Mill Creek, Crafton Hills, and San Timoteo and Live Oak canyons have been identified as rural historic and prehistoric archaeological districts. Rural historic is a designation oriented towards farming in the historic period. Resources found in this district may include orchards still standing, water ditches, barns, or residential and industrial buildings associated with farming activities. Pre-historic archaeological districts designate the pre-historic landscape and rural agricultural landscape that still survives. Because these areas have been insufficiently studied, archaeologists are uncertain what to expect. Historic areas and historic districts are discussed in more detail in Section 3.

Paleontologic resources are the fossil remains or traces of past life forms, including both vertebrate and invertebrate species, as well as plants. These resources are found in geologic strata conducive to their preservation, typically sedimentary formations. Paleontologic resources have been identified in San Timoteo Canyon.

Guiding Policy: Archaeologic and Paleontologic Resources

- 7.30a** Protect archaeologic and paleontologic resources for their aesthetic, scientific, educational, and cultural values.

Additional policies on archaeologic resources are found in Section 3, City Design and Preservation.

Implementing Policies: Archaeologic and Paleontologic Resources

- 7.30b** Using the Archaeological Resource Sensitivity Map, review proposed development projects to determine whether the site contains known prehistoric or historic cultural resources and/or to determine the potential for discovery of additional cultural resources; refer all applications affecting sensitive areas to the Archaeological Information Center for further study.

This map, compiled by the Archaeological Information Center, is on file with the City.

- 7.30c** Require that applicants for projects identified by the Archaeological Information Center as potentially affecting sensitive resource sites hire a consulting archaeologist to develop an archaeological resource mitigation plan; monitor the project to ensure that mitigation measures are implemented.

- 7.30d** Require that areas found during construction to contain significant historic or prehistoric archaeological artifacts be examined by a qualified consulting archaeologist or historian for appropriate protection and preservation.

The California Environmental Quality Act (CEQA) requires evaluation of any archaeological resource on the site of a development project. Unique resources, as defined by State law, should be protected, either by physical measures or by locating development away from the site. A preferred preservation method involves covering a site with earth fill for potential future, leisurely excavation; immediate excavation by qualified archaeologists may be undertaken if such protection is infeasible. If human remains are recovered, State law requires immediate notification of the County coroner, and cessation of work until the situation is resolved.

- 7.30e** For projects involving Federal land, or requiring Federal permission or funding, ensure that applicants meet stricter criteria for archaeological resource review, prior to commencement of work.

Projects involving the Federal government fall under a stricter set of review standards than those projects reviewed under CEQA. Federal-related projects include, for example, all drainage improvements in which the U.S. Army Corps of Engineers has an involvement.

- 7.30f** Work with the San Bernardino County Museum to identify and protect Redlands' significant nonrenewable paleontologic resources.

The Museum has prepared paleontologic sensitivity maps for some portions of San Bernardino County.

7.40 Managed Production of Resources

Agricultural lands and lands containing construction aggregates are the two types of open space within the Planning Area to be preserved for the managed production of resources. Areas required for the recharge of groundwater basins are considered part of the flood plain, and policies on the preservation of these areas are found in Section 8.40, Health and Safety Element, Drainage and Flooding.

7.41 Agriculture

Citrus farming was Redlands' original economic base and remains a small, but not insignificant component of the economy. If any community is to retain its citrus heritage, it will be Redlands. Preservation will require

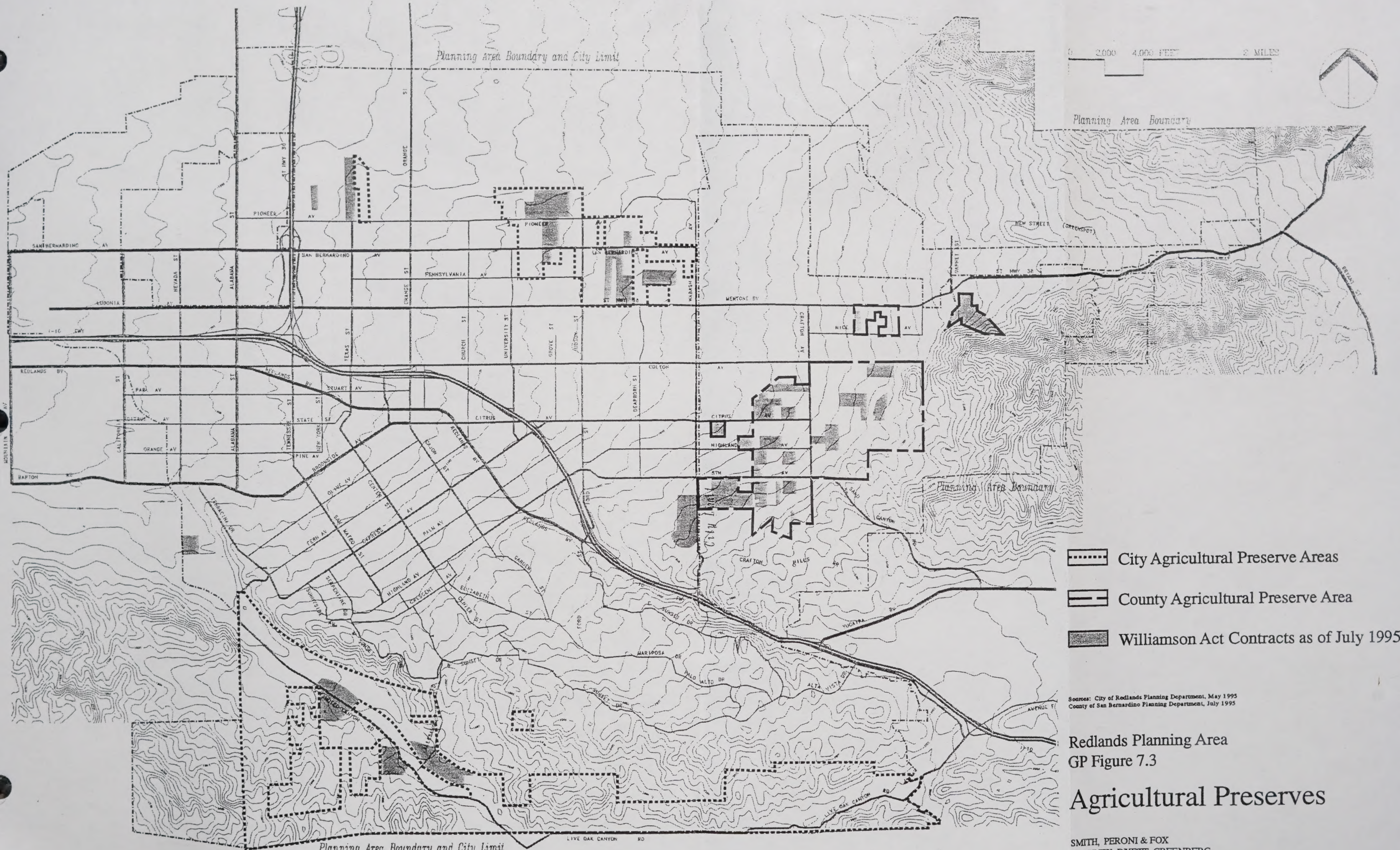
a strong commitment, including the will to regulate and to acquire, because the spread between the land payment capability of citrus and urban development will continue to grow. Citrus income is attractive to an owner who is holding for subdivision, but does not provide a competitive return on investment if an alternative is sale for development.

Despite a two-thirds decline in acreage during the previous 30 years, 4,888 acres (16 percent of the Planning Area) remain in citrus. Other agriculture (other orchard crops, row crops, livestock, dairies, and Christmas tree farms) occupies 918 acres. With relatively low cost water supplied by mutual water companies, good productivity, and 90 percent of the fruit commanding premium prices for export to Asia, the Redlands citrus industry stabilized during the 1980s. However, a majority of the citrus acreage is owned by investors, both local and absentee, who must be presumed to be holding it for urban development.

Agricultural land uses within the Planning Area are concentrated in five areas, North-West Redlands (East Valley Corridor Specific Plan Area), West Redlands, San Timoteo Canyon, North Redlands (Redlands Municipal Airport Area), and North Mentone. In an effort to maintain and preserve the agricultural industry in the Redlands area the "Agricultural Preserve" concept was developed. Within Redlands there are two levels of this concept, the Agricultural Preserve designation between the City and property owner, whereby the City provides agricultural protection through zoning regulations using agricultural preserves (see GP Figure 7.3, Agricultural Preserves) and the more formal Williamson Act program. The lands under Williamson Act contract were originally designated in 1970. Under the Williamson Act Program land owners may enter 10-year contracts to maintain open use in exchange for taxation based on agricultural use rather than market value. Contracts renew automatically each year unless the owner or the public entity (City or County) serves notice of nonrenewal, in which case the land becomes available for development 10 years hence. As of May 1995, 24 parcels within the City totaling approximately 177 acres were under Williamson Act Contract.

About 30 percent of the existing citrus is within the East Valley Corridor Area. The Specific Plan for this area calls for conversion of agricultural land for commercial and industrial development over a 40-year period. Most other citrus acreage in both the City and the County is zoned for agricultural use with a minimum parcel size of five acres.

In 1968, interested citizens involved the entire community in raising funds to purchase Prospect Park. Since then, a citizens committee of the Parks Commission has been appointed to manage the farming of the groves owned by the City. These groves are self-supporting and often profitable. Up to \$1.8 million of the \$7.2 million in open space bonds authorized in 1987 under Measure O is to be spent or has already been spent for citrus acquisition. Citrus groves currently owned by the City which are proposed to remain in citrus include the Prospect Park Grove (24 acres), Judson Grove (6 acres), Fifth Avenue Grove (13 acres), I-10/California Grove (5 acres), Texas Webster Grove (13 acres), Palmetto/Nevada Grove (16.7 acres), and Olive Avenue Grove (3.75 acres) and San Bernardino/Wabash Grove (10 acres).



- City Agricultural Preserve Areas
- County Agricultural Preserve Area
- Williamson Act Contracts as of July 1995

Sources: City of Redlands Planning Department, May 1995
County of San Bernardino Planning Department, July 1995

Redlands Planning Area
GP Figure 7.3

Agricultural Preserves

SMITH, PERONI & FOX
BLAYNEY, DYETT, GREENBERG
ESRI



Guiding Policies: Agriculture

- 7.41a Retain the maximum feasible amount of agricultural open space for its contributions to the local economy, lifestyle, air quality, habitat value and sense of Redlands' heritage.
- 7.41b Provide for continued operation of existing livestock/dairy farms in areas of the San Timoteo/Live Oak Canyon planning sector designated Rural Living and Very Low Density on the General Plan Diagram.
- 7.41c Encourage retention or establishment of horse stables and riding academies in the San Timoteo/Live Oak Canyon planning sector to meet the needs of the Planning Area's equestrians.

Implementing Policies: Agriculture

- 7.41d Employ zoning for agricultural use, City ownership, transfer of density, and zoning for rural living to maintain citrus and other croplands in production where designated on the General Plan Diagram.

Using PRDs, densities may be transferred within a parcel to preserve agricultural land. Where designated on the General Plan Diagram, viable citrus areas may be designated for preservation as a condition of development approval without reducing the number of housing units or the development to be built on the parcel.

Designated Rural Living areas in the Crafton, Live Oak Canyon, and Mentone planning sectors are primarily planted to citrus and are increasingly attractive as residential locations. At maximum densities of one housing unit per 2.5 or 5 acres, citriculture will remain viable.

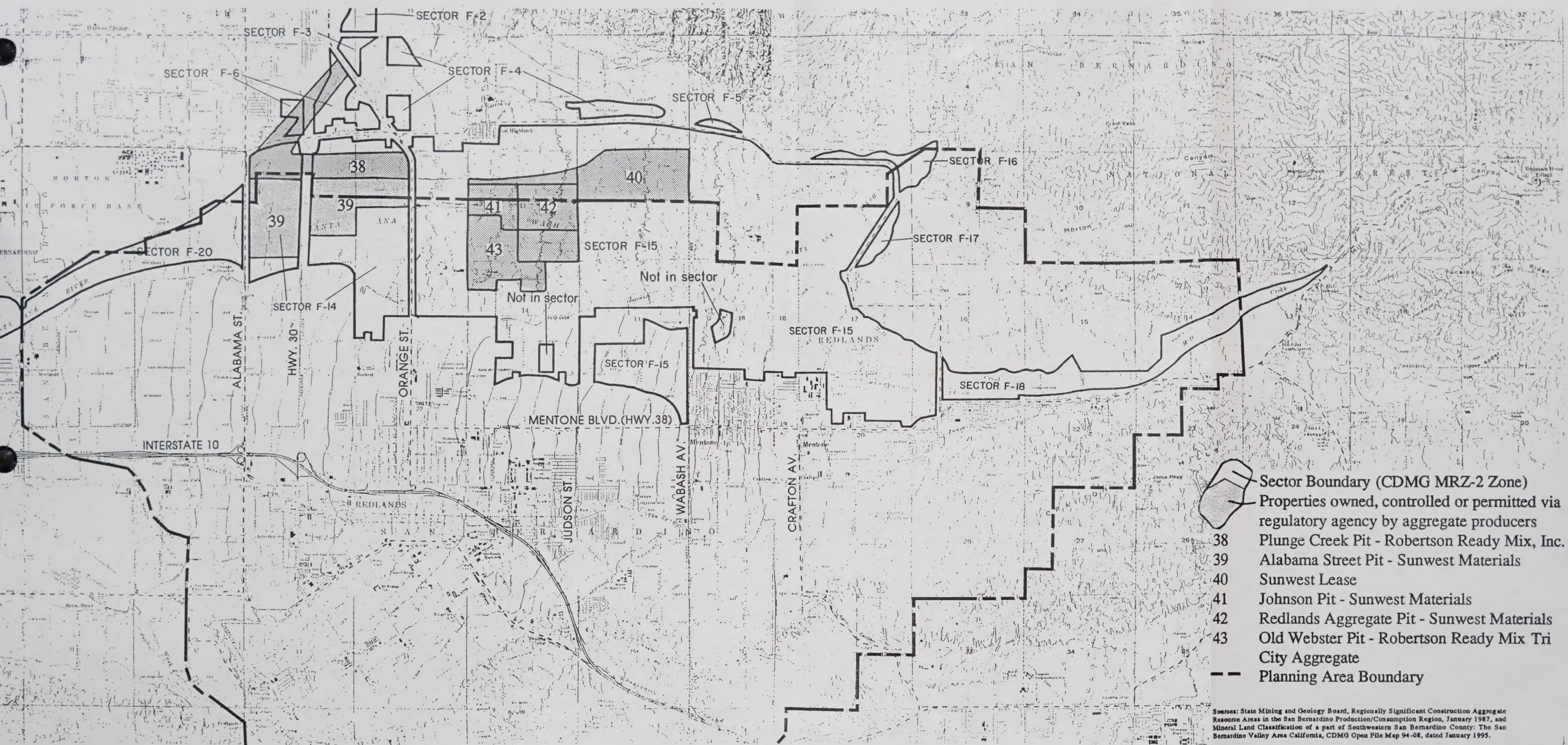
- 7.41e Encourage formation of a land trust to make the most efficient use of funds available for agricultural preservation.

Sale below appraised market value ("bargain sale") to a land trust that subsequently conveys the property to a public agency can provide attractive tax savings to a seller. Assistance in forming a land trust is available from the Trust for Public Land or similar organizations.

7.42 Construction Aggregates

The Santa Ana Wash adjoining Redlands contains high quality construction aggregates that have been mined since the 1920s. Urban preemption of prime deposits and conflicts between mining and other uses throughout California led to passage of the Surface Mining and Reclamation Act of 1975 (SMARA) which requires all cities and counties to incorporate in their General Plans the mapped designations approved by the State Mining and Geology Board.

Redlands is required by SMARA to adopt policies recognizing the importance of the identified mineral resources, clarifying the intent that this information is to be used when making land use decisions in areas designated to be of statewide or regional significance, and emphasizing the conservation and development of identified mineral deposits. Regionally significant aggregate resources within the Planning Area are shown on GP Figure 7.4.



Redlands Planning Area
GP Figure 7.4

Regionally Significant Construction Aggregate Resource Areas in the San Bernardino Production/Consumption Region



Mining in the Santa Ana Wash is being done on both sides of the boundary between the cities of Redlands and Highland. New areas are currently being proposed for mining along the northern Planning Area boundary by Sunwest Materials and Robertsons Ready Mix. While approximately 90 percent of the land is owned by public agencies (Bureau of Land Management, San Bernardino County, City of Redlands, and San Bernardino Valley Water Conservation District), the land is leased to allow mining and (haul) roads.

In 1990 Redlands annexed the Sunwest Materials (formerly C.L. Pharris Sand and Gravel Company's Orange Street Aggregates) processing plant built two years earlier under permits issued by San Bernardino County. The annexed area also included the Old Webster Quarry which is being mined by Robertson Ready Mix under permits issued by the County of San Bernardino. Based on information presented in 1987, the California Division of Mines and Geology estimates 50-year aggregate needs in the San Bernardino Production-Consumption Region at 476 million tons vs. 10.45 billion tons potentially available as resources within the Santa Ana Wash area.

Guiding Policies: Construction Aggregates

- 7.42a** Conserve sufficient aggregate resources to allow conversion of two 50-year supplies (approximately 2400 acres) of aggregate reserves to meet the Planning Area's contribution to future regional needs.

Because most of the Planning Area's Mineral Resource Zone (MRZ) designated under SMARA is in the Santa Ana Wash, it will not be subject to urban development. Redlands will be bearing more than a proportional share of the impacts of aggregate production given the location of mining and processing operations.

- 7.42b** Manage aggregate resources to ensure that extraction results in the fewest environmental impacts. Require preparation and assured implementation of a reclamation plan for aggregate extraction sites as a condition of approval of mining.

Mining is traditionally a high impact industry that must adjust its operations to become an acceptable neighbor to urban areas. As noted in Policy 7.21s, the reclamation plan should address protection of biotic resources, as well as the inclusion of possible recreational uses.

- 7.42c** Reserve designated MRZ areas outside the Santa Ana Wash for agricultural or urban use.

Although the State Mining and Geology Board revised the boundaries of some sectors in 1987 to delete urbanized area, substantial acreage south of the blufftop is designated.

Implementing Policies: Construction Aggregates

- 7.42d** Clearly identify mineral resource areas, those areas targeted for conversion to reserves for possible future extraction, and areawide aggregate transportation routes. Policy 7.42c above indicates areas not suitable for future extraction.

Mineral resource zones (MRZs) targeted for conservation include most, but not all, of the Flood Control/Construction Aggregates Conservation/Habitat Preservation area in the Santa Ana Wash and Mill Creek Canyon as indicated on the General Plan Diagram. See Master Environmental Assessment (MEA) Figure 8.2 for precise boundaries of the MRZ within this area.

- 7.42e** Apply zoning regulations to areas identified in Policy 7.42d allowing aggregate extraction as a conditional use and prohibiting incompatible land uses in Regionally Significant Construction Aggregate Resource Areas to be conserved. Zoning should cover sufficient area for two 50-year supplies of construction aggregate reserves and be reevaluated every 10 years per CDMG Guidelines.

This policy meets a requirement of SMARA.

- 7.42f** Deny approval of surface mining permits at locations where unmitigated adverse impacts would be significantly greater than at alternative locations with the San Bernardino Production-Consumption Region.
- 7.42g** Make issuance of a surface mining permit conditional upon approval of a reclamation plan and financial assurances for reclamation in accord with Public Resource Code Section 2770.

3.0 HEALTH AND SAFETY ELEMENT

REDLANDS GENERAL PLAN

8.0 HEALTH AND SAFETY ELEMENT

State law requires a Safety Element to outline policies which will protect residents' health, and protect the community from both natural and human-induced disasters. This Health and Safety Element considers air and water quality, fire hazards, drainage and flooding, seismicity, geology, soils, wind hazards, electromagnetic fields, airport/aviation safety, and emergency management. Information contained in the Master Environmental Assessment provides additional discussion on these issues.

8.10 Air Quality

Regional exceedances. The South Coast Air Basin (SCAB) is currently a nonattainment area for ozone (O_3), carbon monoxide (CO), fine particulate matter (PM_{10}) and nitrogen dioxide (NO_2). Of the federal and state standards exceeded in 1993 within the SCAB, the ozone standard was exceeded most often, followed by the CO and PM_{10} standards. The SCAB has the worst ozone air quality in the nation and is the only area designated as "extreme" nonattainment for ozone. PM_{10} levels in the SCAB are very high compared to most other areas.

In 1992, the SCAB recorded the greatest number of exceedances of the federal CO standard in the nation. The SCAB is currently designated as a serious nonattainment area for CO under the federal Clean Air Act and is required to implement emissions reduction measures as expeditiously as practicable to attain federal CO standards by December 31, 2000.

The SCAB is also the only area in nonattainment of the federal NO_2 standard. During 1993, the state NO_2 standard was only exceeded once in the SCAB and the federal standard was not exceeded. Sulfate, sulfur dioxide (SO_2), and lead concentrations were below both state and federal standards.

Over the past 30 years, ozone levels have been reduced by half in the SCAB and other criteria pollutant concentrations have significantly declined. The SO_2 and lead standards have been met in the SCAB, and for the first time in 1992, the federal annual NO_2 standard was not exceeded in the basin. Even with these improvements in air quality, the SCAB still experiences exceedances of health-based standards for ozone, nitrogen dioxide (1-hour), carbon monoxide and PM_{10} .

The air quality in San Bernardino County results from a unique combination of factors; air flow patterns and emission sources, both local and those located through the region, result in some of the worst air quality in the nation. San Bernardino County regularly exceeds State and federal air quality standards for Ozone (O_3), and fine Particulate Matter (PM_{10}). Ozone exceedances are acute during summer months when onshore wind patterns transport pollutants from the western portion of the South Coast Air Basin, notably Los Angeles and Orange counties, that combine with emissions from local sources. San Bernardino County records the most severe violations of air quality standards for Ozone and PM_{10} compared to the rest of the South Coast Air Basin.

Local exceedances. The San Bernardino County portion of the South Coast Air Quality Management District (SCAQMD) is made up of portions both of the valley and mountains. These have been divided into seven air monitoring areas, for which the SCAQMD annually summarizes the air quality. Redlands is within the East San Bernardino Valley air monitoring area, and is grouped together with Yucaipa, and Loma Linda. Between 1975 and 1984, federal air quality standards were exceeded on an average of 115 days per year. Although ozone levels did not reach Stage II (unhealthful for everyone and bordering on hazardous air quality) or III (hazardous air quality) during this period, there were an average of 40 Stage I (unhealthful for everyone) episodes per year. More than 90 percent of these episodes occurred during June through October, between the hours of 3 p.m. and 7 p.m. The ozone measurement station is located in Redlands.

Recent trends indicate that the frequency of ozone Stage I episodes in Redlands has decreased compared to the number of episodes throughout the County of San Bernardino and the South coast Air Basin (SCAB). For example, there were 7 Stage I episode days in Redlands compared to 31 countywide and 43 throughout the Basin during 1992. During 1993, Stage I ozone episodes were called on 8 days in Redlands, 15 days throughout the county and 23 days in the SCAB. Maximum one-hour ozone levels measured in Redlands were very nearly the highest in the county and the basin. They reached 0.27 ppm in 1992 and 1993. The county maximum was 0.27 ppm in 1993 and 0.28 ppm in 1992. Maximum one-hour ozone levels measured throughout the SCAB were only slightly higher (0.28 ppm in 1993 and 0.30 ppm in 1992).

Regulatory framework. The federal Clean Air Act (CAA), promulgated in 1970 and amended twice thereafter (including the 1990 amendments), establishes the framework for modern air pollution control. The CAA directs the Environmental Protection Agency (EPA) to establish ambient air standards for six pollutants: Ozone, Carbon Monoxide, Lead, Nitrogen Dioxide, Particulate Matter and Sulphur Dioxide. The standards (National Ambient Air Quality Standards, or NAAQS) are divided into primary and secondary standards; the former are set to protect human health with an adequate margin of safety and the latter to protect environmental values such as plant and animal life.

The CAA requires states to submit a State Implementation Plan (SIP) for areas that exceed the NAAQS (nonattainment areas). The SIP, which is reviewed and approved by the EPA, must demonstrate how the federal standards will be achieved. Failure to submit a plan or secure approval of the plan by the EPA could lead to denial of federal funding and permits for such improvements as highway construction and sewage treatment plants. In cases where the SIP is submitted but fails to demonstrate achievement of the standards, the EPA is directed to prepare a Federal Implementation Plan. For example, EPA's recently released draft Federal Implementation Plan (FIP) for the South Coast, Ventura and Sacramento regions was prepared under court order to promulgate a plan to demonstrate compliance with the CCA's ozone and CO standards.

The November 1990 amendments to the federal Clean Air Act (CAA) were intended to intensify air pollution control efforts across the nation. The CAA identifies specific emission reduction goals, requires both a demonstration of reasonable further progress (an incremental reduction in emissions of relevant air pollutants needed to ensure attainment of the NAAQS by the applicable date) and an attainment demonstration, and incorporates more stringent sanctions for failure to attain or to meet interim milestones. The CAA requires the SCAQMD to develop: a Federal Attainment Plan for Ozone; a post-1996 rate-of-progress demonstration; an ozone attainment demonstration; a PM₁₀ SIP which incorporates best available control measures (BACM) for fugitive sources; near-term (< year 2000) and long-term (> year 2000) transportation control measures and contingency measures (i.e., additional control measures which would be implemented in the event of a milestone or attainment failure).

The CAA classifies the Basin as an extreme nonattainment area and states that the Basin must achieve the federal ozone standard by November 15, 2010. The SCAQMD must demonstrate how the Basin will achieve VOC emission reductions of at least 3% per year averaged over each consecutive 3-year period beginning from November 15, 1996 and ending November 15, 2010.

In February 1993, EPS redesignated the SCAB and the Coachella Valley from moderate to serious nonattainment for PM₁₀. This was necessitated by the fact that the 1991 AQMP indicated that the implementation of reasonably available control measures (RACM) for fugitive dust would not ensure attainment of the PM₁₀ NAAQS by the CAA deadline of December 31, 1994. Consequently, the SCAQMD is required to prepare and adopt a PM₁₀ SIP for the SCAB and the Coachella Valley which incorporates best available control measures (BACM) for fugitive sources.

The California Clean Air Act (CCAA), which is generally more stringent than the federal CAA, was signed into law in 1988 and amended in 1992. The CCAA divides nonattainment areas into categories with progressively more stringent requirements, based on pollutant levels monitored therein. The SCAB is an extreme nonattainment area for ozone and a serious nonattainment area for CO and NO₂. PM₁₀ is not currently addressed

in the CCAA. Serious and above attainment areas are required to revise their AQMP to include specified emission reduction strategies and to meet milestones in implementing emission controls and achieving better air quality.

The CCAA requires the establishment of indirect and area source controls to reduce vehicle miles traveled (VMT) and increase average vehicle ridership (AVR). It specifies the use of best available retrofit control technology for existing sources. The CCAA requires new source review to mitigate all emissions from new and modified permitted sources. It also requires consideration of transportation control measures (TCM's) and significant use of low-emission vehicles by fleet operators.

CAA requirements for control strategy development that are addressed in the 1994 AQMP include:

- Rate-of-progress requirements (reducing pollutants contributing to nonattainment by 5% per year or the maximum feasible);
- AVR requirement (Achieving an average vehicle ridership during peak commute hours of 1.5 persons/vehicle by 1999);
- Ensure no net increase in motor vehicle emissions after 1997;
- Substantial decrease in VMT growth and vehicle trips;
- Reduce per-capita population exposure to severe nonattainment pollutants (Ozone, CO and NO₂ for the SCAB) according to a prescribed schedule;
- Rank control measures by cost-effectiveness and implementation priority.

In addition to the six pollutants regulated by federal legislation, the California Clean Air Act establishes standards for Hydrogen Sulphide, Sulphates and Vinyl Chloride. Responsibility for achieving these standards (which are more stringent than federal standards) is placed on the California Air Resources Board (CARB) and local air pollution control districts. The Air Quality Management Plan (AQMP) is, in turn, incorporated into the SIP.

With the aim of complying with all state and federal ambient air quality standards by 2010, the South Coast Air Quality Management District (SCAQMD) and Southern California Association of Governments (SCAG) jointly prepared the 1994 Air Quality Management Plan (AQMP). The Plan calls for implementation of rules and regulations by the CARB, the SCAQMD, the Environmental Protection Agency and local jurisdictions.

The 1994 AQMP demonstrates attainment of the federal and state ambient air quality standards. It proposes to achieve the federal ozone and PM₁₀ standards through long-term measures that emphasize a greater reduction of nitrogen oxides emissions from on-road and off-road sources than previous versions of the AQMP. The 1994 AQMP includes a 1990 emissions inventory and future emissions forecasts that reflect demographic and economic growth forecasts by SCAG.

The 1994 AQMP calls upon local governments to play an active role in reducing mobile source emissions through the implementation of specific actions. Control Measure FC-4 in the 1992 Carbon Monoxide Plan combines all transportation control measures (TCMs) developed by SCAG for local government implementation to reduce VMT and vehicle trips. Additional actions which local governments can implement to reduce mobile source emissions are described and quantified in the SCAQMD *Trip Reduction Ordinance Handbook*.

With 90 percent of local governments committed to implementing TCMs as of 1992, local efforts are currently having (and will continue to have) a profound impact on improving air quality in the region by reducing emissions from mobile sources and enhancing mobility by decreasing congestion levels. Appendix IV-C to the 1994 AQMP *Transportation Control and Indirect Source Measure Recommendations from the SCAG Regional*

Council details advanced transportation technology measures, transportation improvement measures, market incentives, indirect source controls and other programs intended to maximize emission reductions from mobile sources by integrating air quality, mobility and the economic development goals described in the Regional Comprehensive Plan.

The AQMP calls upon local governments to implement appropriate control measures contained in the AQMP. Several measures direct each local government to adopt an Air Quality Element or its equivalent as part of its General Plan. If all of the applicable control measures are not implemented, the air quality standards cannot be achieved. In this event, the existing moratorium on location of stationary sources in the Basin will be continued and federal funding and other permits may be denied until the standards are met.

San Bernardino County has drafted a Model Air Quality Element. Since the air quality problem is larger than any one jurisdiction, the Model Element includes goals, policies, and programs which have been accepted by the fifteen cities in the San Bernardino County portion of the South Coast Air Basin, and which contain consensus goals, policies and programs intended to provide a common foundation for coordinated action. This air quality section has been adapted from the Model Air Quality Element, and will thus be consistent with air quality policy for the County and all participating jurisdictions. For further detail on air quality within the County, the AQMP may be consulted.

Guiding Policies: Air Quality

- 8.10a** Achieve economic growth in such a way that good air quality can be achieved and maintained.

Good air quality is air quality which meets State and federal standards.

- 8.10b** Achieve necessary air-quality-related lifestyle and economic changes through market incentives where feasible and through regulatory measures where necessary.

8.11 Air Quality and Jurisdictional Responsibility and Roles

Guiding Policies: Air Quality and Jurisdictional Responsibility and Roles

- 8.11a** Support the County in its efforts to coordinate air quality improvements in the portion of the South Coast Air Basin within the County and in its efforts to coordinate improvements in air quality through reductions in pollutants from Orange and Los Angeles counties.
- 8.11b** Coordinate with other jurisdictions in San Bernardino County to establish and integrate parallel or related air quality plans, implementation programs, and monitoring and reporting.
- 8.11c** Cooperate with the County's establishment of an ongoing air quality implementation and project referral process within the San Bernardino County portion of the South Coast Air Basin, adapting it as necessary to the City's circumstances, resources and procedures.
- 8.11d** Support the County in its efforts to cooperate actively with Los Angeles, Orange and Riverside counties to comprehensively improve air quality at the emission source, and cooperate with these jurisdictions directly, where possible.

- 8.11e Involve environmental groups, the business community, special interests and the general public in the formulation and implementation of programs which effectively reduce airborne pollutants.
- 8.11f Advocate and support innovative strategies to improve air quality.

Implementing Policies: Air Quality and Jurisdictional Responsibility and Roles

- 8.11g Participate with SANBAG in defining and implementing the Congestion Management Program (CMP) for San Bernardino County to ensure appropriate coordination with air quality planning.

See related policies and discussion within Section 5, Circulation Element.

- 8.11h Coordinate with and cooperate with the implementation/monitoring system devised as part of the County Air Quality Plan, and integrate any City-level monitoring and reporting programs with monitoring and reporting required for the County Air Quality Plan.
- 8.11i Jointly establish a communication network with key elected officials and staff involved in air quality planning in Los Angeles, Orange and Riverside counties as the basis for identifying and implementing parallel measures of mutual benefit.
- 8.11j Design and conduct efforts to involve the public and affected/interested parties in the adoption of local air quality plans and implementation of air quality improvement programs.

Measures identified in the Regional Air Quality Plan to implement this program include:

- ▶ *conduct public forums;*
- ▶ *establish communication and education programs;*
- ▶ *make written briefs available locally;*
- ▶ *conduct Planning Commission/City Council public workshops; and*
- ▶ *utilize a variety of media forms to maximize citizen involvement.*

- 8.11k Support new approaches to improving air quality through supporting legislation, cooperating with regional bodies, establishing pilot programs, and funding and/or participating in private/public partnerships.

8.12 Air Quality and Ground Transportation

Guiding Policies: Air Quality and Ground Transportation

- 8.12a Aim for a diverse and efficiently operated ground transportation system which generates the minimum feasible pollutants.
- 8.12b Reduce vehicle miles traveled and peak period auto travel by increasing average vehicle ridership during peak commute hours.

See related policies within Section 5, Circulation Element.

- 8.12c Cooperate in efforts to expand bus, rail and other forms of mass transit in the portion of the South Coast Air Basin within San Bernardino County.

- 8.12d Promote expansion of all forms of mass transit in the urbanized portions of San Bernardino, Orange, Los Angeles and Riverside counties.
- 8.12e Support public transit providers in efforts to increase funding for transit improvements to supplement other means of travel.
- 8.12f Jointly support efforts to establish a regionwide bus pass.

- 8.12g Promote non-motorized transportation.

See related policies within Section 5, Circulation, and trails policies within Section 7.10, Open Space and Conservation Element.

- 8.12h Promote a regional approach in utilizing parking costs as a means to discourage low vehicle occupancy.
- 8.12i Aim for a pattern of land uses which can be efficiently served by a diversified transportation system and land development projects which directly and indirectly generate the minimum feasible air pollutants.
- 8.12j Integrate air quality planning with the land use and transportation process.

Implementing Policies: Air Quality and Ground Transportation

- 8.12k Establish and implement a Transportation Demand Management (TDM) Program.

See related policies within Section 5, Circulation Element.

- 8.12l Define and implement auto limitation procedures in selected areas and at selected times, provided that alternative transportation modes are available.
- 8.12m Establish incentives and regulations to eliminate work trips.
- 8.12n Use incentives, regulations and Transportation Demand Management (TDM) in cooperation with other jurisdictions in the South Coast Air Basin to eliminate vehicle trips which would otherwise be made, and to reduce the vehicle miles traveled for auto trips which still need to be made.
- 8.12o Establish and maintain telecommunications strategies to reduce the length of auto trips.
- 8.12p Promote and establish modified work schedules which reduce peak period auto travel.
- 8.12q Establish incentives and regulations to spread work trips over a longer period to reduce peak period congestion.
- 8.12r Participate in efforts to achieve increased designation, construction, and operation of HOV lanes on freeways in Los Angeles, Orange, Riverside and San Bernardino counties.
- 8.12s Jointly, through the County, SANBAG, and SCAG, participate with adjacent counties in expanding HOV lanes on the freeway system within those counties.
- 8.12t Coordinate overlapping components of the State-mandated Congestion Management Program and the Regional Air Quality Plan.

- 8.12u Promote market-based incentives and disincentives to relieve peak hour/peak direction congestion within highly congested travel corridors.
- 8.12v Cooperatively initiate a pilot program to explore jointly with Los Angeles, Orange and Riverside counties, methods and workability of Congestion Fees for peak hour/peak direction use to be levied within highly congested travel corridors, particularly those which generate emissions transported to San Bernardino County.
- 8.12w Participate with public transit providers serving San Bernardino County in a cooperative program to increase transit services with existing equipment and expand services through transit facility improvements.
- 8.12x Coordinate with public transit providers to increase funding for transit improvements to supplement other means of travel.
- 8.12y Plan for intraregional commuter and main line rail service development including convenience facilities at rail stops.

See related policies in Section 5, Circulation Element.

- 8.12z Develop design standards that promote access to transit facilities.
- 8.12aa Influence the expansion of intraregional commuter and main line rail services, particularly those linking with destinations in San Bernardino County.
- 8.12bb Provide bicycle and pedestrian pathways to encourage non-motorized trips.

See related policies in Section 5, Circulation Element.

- 8.12cc Develop standards and guidelines for support facilities to incorporate into development plans for increased bicycle and pedestrian routes to link appropriate activity centers to nearby residential development.
- 8.12dd Manage parking supply to discourage auto use, while ensuring that economic development goals will not be sacrificed.

Modification of parking provisions and development of management strategies shall be done in conjunction with regional efforts so that there is not a competitive disadvantage suffered by the Redlands Planning Area.

- 8.12ee Establish short and long-term parking management strategies at governmental and private facilities in ways that discourage single-occupancy vehicle usage and reward high vehicle occupancy rates without placing the Redlands Planning Area at a competitive disadvantage.

Modification of parking provisions and development of management strategies shall be done in conjunction with regional efforts so that there is not a competitive disadvantage suffered by the Redlands Planning Area.

- 8.12ff Establish parking management strategies for governmental and private facilities in ways that discourage single-occupancy vehicle usage and reward high vehicle occupancy rates without placing the Redlands Planning Area at an economic disadvantage in enticing jobs.

Modification of parking provisions and development of management strategies shall be done in conjunction with regional efforts so that there is not a competitive disadvantage suffered by the Redlands Planning Area.

- 8.12gg Promote State and federal legislation which would improve vehicle/transportation technology and which would establish differential pricing mechanisms to assess the true cost of emissions.
- 8.12hh Support legislation to stimulate the development of practical electric vehicles.
- 8.12ii Support State legislation which would establish emission fees on gasoline products and differential registration fees on motor vehicles according to the emission levels that they are designed to produce; include exploration of an option that imposes pollution fees on individual vehicles at time of mandated smog inspections, based on actual vehicle performance.
- 8.12jj Support legislation which tightens the existing vehicle inspection program, both in terms of standards to be met and requirements for compliance.
- 8.12kk Invest in and institute clean fuel systems on new local government fleet vehicles.
- 8.12ll Promote the development of Park-and-Ride lots.

8.13 Air Quality and Air Transportation

Guiding Policy: Air Quality and Air Transportation

- 8.13a Support a goal of minimum feasible emissions from all air carrier airports within the region, and identify the Norton Air Force Base reuse impact.

Implementing Policies: Air Quality and Air Transportation

- 8.13b Promote requiring the best available technology to reduce emissions in aircraft fleet.
- 8.13c Urge establishment of the best available technology and operational measures for aircraft and ground service vehicles.
- 8.13d Support phasing out of Stage II aircraft and the earliest possible transition to Stage III aircraft for operation within the Air Basin.
- 8.13e Promote installation of centralized ground power systems at existing air carrier airports.
- 8.13f Urge establishment of requirements for centralized ground power systems to be installed and used as soon as practicable at existing air carrier airports.
- 8.13g Promote conditioning of approval of air carrier airports upon inclusion of plans for improved ground access.
- 8.13h Urge establishment of an ordinance requiring air carrier airport operators to obtain permits based on approved plans for trip reduction, facility design and access improvements.

8.14 Air Quality and Land Use**Guiding Policy: Air Quality and Land Use**

- 8.14a** Support a regional approach to regulating the location and design of land uses which are especially sensitive to air pollution.

Implementing Policies: Air Quality and Land Use

- 8.14b** Manage growth by ensuring the timely provision of infrastructure to serve new development.
- 8.14c** Incorporate phasing policies and requirements in general plans and development plans to achieve timely provision of infrastructure (particularly transportation facilities) to serve development.
- 8.14d** Improve the balance between jobs and housing in order to create a more efficient urban form.
- 8.14e** Improve jobs/housing balance through new development and redevelopment project reviews and actions.
- 8.14f** Improve jobs/housing balance at a subregional level in relation to major activity centers as new development occurs.
- 8.14g** Support incentive-oriented tax credits; loan programs; small business development programs; and complementary land use policies, all aimed at improving the jobs/housing balance in the western San Bernardino/eastern Los Angeles counties area.
- 8.14h** Develop and adopt an agreement among the participating jurisdictions as to mutually acceptable approaches to improve and maintain jobs/housing balance.
- 8.14i** Participate with the SCAQMD in jointly formulating appropriate standards for regulating the location and protection of sensitive receptors (schools, day care facilities, hospitals and the like) from excessive and hazardous emissions.
- 8.14j** Locate and design new development in a manner that will minimize direct and indirect emission of air contaminants.
- 8.14k** Support and encourage the maximum use of plants and trees to provide oxygen enrichment through the photosynthesis process.

8.15 Air Quality and Particulates**Guiding Policies: Air Quality and Particulates**

- 8.15a** Aim for the minimum practicable particulate emissions from the construction and operation of roads and buildings.
- 8.15b** Reduce particulate emissions from roads, parking lots, construction sites, mining operations and agricultural lands.
- 8.15c** Reduce emissions from building materials and methods which generate excessive pollutants.

Implementing Policies: Air Quality and Particulates

- 8.15d Adopt incentives, regulations and procedures to manage paved roads so they produce the minimum practicable level of particulates.
- 8.15e Adopt incentives, regulations and procedures to minimize particulate emissions during grading, and road, parking lot, and building construction.
- 8.15f Adopt incentives, regulations and procedures to control particulate emissions from unpaved roads, drives, vehicle maneuvering areas, parking lots, and disturbed land that is not developed.
- 8.15g Adopt incentives, regulations and procedures to limit dust from agricultural lands and operations.
- 8.15h Adopt incentives, regulations and procedures to prohibit the use of building materials and methods which generate excessive pollutants.

8.16 Air Quality and Energy Use**Guiding Policies: Air Quality and Energy Use**

- 8.16a Aim for reduced emissions through reduced energy consumption.
- 8.16b Reduce energy consumption through conservation improvements and requirements.

See related policies within Section 7.23, Open Space and Conservation Element, Energy Resources and Conservation.

- 8.16c Reduce water heating emissions resulting from swimming pool heaters and residential and commercial water heaters.

- 8.16d Promote local recycling of wastes and use of recycled materials.

See related policies within Section 7.24 Open Space and Conservation Element, Waste Management and Recycling.

Implementing Policies: Air Quality and Energy Use

- 8.16e Implement plans and programs to phase in energy conservation improvements through the annual budget process.
- 8.16f Adopt incentives and regulations to enact energy conservation requirements for private development. Residential Development Allocations (RDAs) provide points for energy conservation efforts.
- 8.16g Adopt incentives and regulations to reduce emissions from swimming pool heaters.
- 8.16h Adopt incentives and regulations to reduce emissions from residential and commercial water heating.
- 8.16i Implement provisions of AB 939 and adopt incentives, regulations and procedures to specify local recycling requirements.

See related policies in Section 7.24, Open Space and Conservation Element, Waste Management and Recycling and policies within the Source Reduction and Recycling Element.

8.20 Water Quality

Groundwater contamination poses some serious problems. It is estimated that 28% (11 out of 40) of the City's wells are contaminated by agricultural nitrates and must be considered non-potable without costly treatment. A groundwater plume with high levels of toxic industrial organic solvents (trichloroethylene, or TCE) has been tracked moving across the Planning Area, from east to west toward the Santa Ana River, also rendering some wells non-potable. The Regional Water Quality Control Board (RWQCB) has confirmed the presence of DBCP (dibromochloropropane) in trace amounts in all major city pumping areas. This chemical was applied to citrus groves until banned by the Environmental Protection Agency (EPA) in 1979.

Water supply is intimately tied to water quality, since adequate uncontaminated flows significantly mitigate the presence of contaminated flows, through dilution, flushing, and general availability of alternate sources. Water supply is a regional issue, and is discussed further in Section 7.22, Water Supply and Conservation. The construction of the Seven Oaks Dam on the Santa Ana River, combined with the proposed conservation pool and water rights appropriation by the San Bernardino Valley Municipal Water District (SBVMWD) has the potential to dramatically alter the natural recharge and groundwater scouring actions within the basin. Please refer to Section 6.0, of the MEA, and Section 7.0, of the EIR for further information on water quality.

Guiding Policies: Water Quality

- 8.20a** Work with the local and regional water agencies to improve and enhance groundwater quality in the region.

The RWQCB's Water Quality Control Plan: Santa Ana River Basin, 1984, with amendments through 1994, specifies regional water quality objectives and implementation measures.

- 8.20b** Oppose approval of development projects within the Planning Area that would rely on package wastewater treatment plants.

City of Redlands wastewater treatment capacity can be expanded to serve the Planning Area at buildout. Separate, smaller package plants typically are more difficult to maintain and operate at comparable standards and may pose a threat to groundwater quality. Expansion to the Redlands sewage treatment plant in 1994 provided capacity for 15 years of growth at 100 gallons per capita per day. Rapid development in the East Valley Corridor could require further expansion before then.

- 8.20c** Where feasible given flood control requirements, maintain the natural condition of waterways and flood plains to ensure adequate groundwater recharge and water quality.

This policy is a restatement of a part of Policy 8.40d in Section 8.40, Drainage and Flooding. An increase in impervious surfaces works to diminish percolation of water into the aquifer. The flushing action of adequate flows is necessary to preserve water quality. Preservation of soft or natural-bottom channels aids in percolation and recharge, maintaining water quality. See also Policy 7.211, Open Space and Conservation Element

- 8.20d** The City of Redlands shall give priority to providing its citizens the highest quality water for domestic use as is reasonably available to it.

- 8.20e The City of Redlands shall give priority to utilizing the surface water of Mill Creek, which is the highest quality water presently available to it.
- 8.20f The City will give the next higher priority to utilizing the surface water of the Santa Ana River available to it through stock ownership rights or other rights.
- 8.20g In the event the supply from local surface water sources is insufficient to meet demand, the City will also use local groundwater sources of good quality.
- 8.20h State Water Project water shall be considered, to the extent possible, as supplemental water, and shall be utilized only as necessary to meet demand.
- 8.20i The City will actively protect all water supply sources, to the extent legally possible, from contamination and from a diminution of supply, will undertake all necessary steps to provide a secure supply of high quality water to meet the present and future needs of its citizens.

The Citizens of Redlands rely upon the City to provide them with safe, reliable, high quality water for domestic use. Redlands' water supply is derived from several different sources of varying quality. Increasingly stringent water quality standards are promulgated by state and federal regulatory agencies for drinking water, and there is some uncertainty whether existing water treatment technology alone can remove contaminants sufficiently to meet such standards. Because technology alone may not be sufficient to ensure high quality drinking water, Redlands must endeavor to use the highest quality uncontaminated sources of water available to it, and must protect such sources from contamination. The City Council of the City of Redlands believes it is in the best interest of its citizens to provide the highest quality water reasonably available to it for domestic use by its water users. It is also necessary to ensure a dependable water supply for the City from many sources, to prevent shortages, caused by adequate outages, unexpected contamination, droughts, or emergencies.

Implementing Policies: Water Quality

- 8.20j Participate in the ongoing regional response to EPA's stormwater permit regulations.

Stormwater permit regulations will require the use of best management practices by all jurisdictions in the maintenance of the quality of stormwater runoff. Participation involves attendance at meetings and implementation of practices beneficial to participating jurisdictions.

- 8.20k Require industrial water users to pretreat wastewater onsite prior to discharging into the sewer system, in accordance with Redlands' industrial wastewater pretreatment ordinance.

Ordinance No. 2268 requires wastewater pretreatment, meaning the reduction of the amount of pollutants, the eliminating of pollutants, or the alteration of the nature of pollutant properties in wastewater prior to or in lieu of discharging these pollutants into the City wastewater facility or public sewer. While pretreatment may not be necessary for all industrial uses, it is, in some cases, critical for water quality preservation.

- 8.20l As landfills close, continue groundwater monitoring to detect leaks into the aquifer.

Current testing does not indicate that the presence of toxic substances exceeds regulatory levels. However, there is growing concern that once-active landfills throughout the State may have historically contaminated groundwater and, without ongoing monitoring, may continue to do so. The Church Street burnsite has been closed since 1986, the California Street landfill has a current, 1995, capacity to remain in operation until approximately 1998, however the City Council has

directed staff to pursue an analysis of expanding this landfill facility, and the San Timoteo Canyon landfill is expected to close by 2016, unless expanded.

- 8.20m** Require that applicants take soil samples prior to grading or construction in existing or past orchard or other agricultural areas which were treated historically with toxic chemicals such as DBCP. If contamination is discovered, prior to development consult with the appropriate agencies for proper clean-up measures.

The Regional Water Quality Control Board, State Department of Health Services, or U.S. Environmental Protection Agency can provide information or referrals on clean-up measures.

- 8.20n** Construct treatment plants or systems to treat contaminated groundwater as necessary to ensure availability of potable groundwater.

The Texas Street treatment plant, at the corner of Texas Street and Pennsylvania Avenue, is designed to treat 8.6 million gallons of contaminated groundwater daily. In Addition, the Rees Well Water Treatment Plant near Judson and Pennsylvania is designed to treat 3 million gallons of contaminated groundwater daily.

- 8.20o** Design projects to minimize the possibility of wind or water erosion and, where necessary, require preparation and implementation of a soil erosion plan, including soil erosion mitigation during construction.

Thoughtful construction practices can minimize erosion. Measures might include removing the surface cover from the soil only when construction is ready to begin, uncovering soil only at the construction sites, avoid grading during the wet season, covering stockpiles of soil, and erecting berms, barriers, or temporary settling ponds to direct runoff away from cleared areas and trap sediments before they enter surface waters. See also Policy 8.50l.

- 8.20p** The City of Redlands will coordinate with the Regional Water Quality Control Board in developing a system of efficient and accurate well monitoring facilities to ensure early detection of ground water contamination.

8.30 Fire Hazards

Due to a combination of topography, weather, and fuel and exacerbated by potentially high winds and limited access, portions of the Planning Area have been evaluated as being highly susceptible to wildland fire hazards. The slopes of San Timoteo and Live Oak canyons, the Badlands to the south, and the Crafton Hills to the east of the Planning Area are not only difficult for firefighters and equipment to reach, but their steepness and configuration can aid in the rapid upslope spread of fire.

Limited rainfall, low humidity, and seasonal high temperatures contribute to the desiccation of the grasses and chaparral which cover the foothills, providing prime fuel for intense burns. Although some of the canyons are shielded from the direct impact of the powerful, dry Santa Ana winds, their presence generally aggravates the fire hazard. (See Section 8.60 on Wind Hazards.) In addition, the presence of human activities in or near a wildland area dramatically increases the risk of a major fire due to careless smokers, illegal campfires, and other related risks.

The City of Redlands is served by the Redlands Fire Department, and unincorporated portions of the Planning Area are served by the California Department of Forestry and Fire Protection (CDFFP), as contracted by the County of San Bernardino and headed by the County Fire Warden. Adjacent National Forest lands are served by the U.S. Forest Service. Policies emphasize structural fire prevention measures for use throughout the Planning Area, as recommended by the Redlands Fire Department, and as specified in a 1983 document prepared

as part of the Foothill Communities Protective Greenbelt Program (FCPGP). The FCPGP was a multijurisdictional effort involving participants from over a dozen agencies, and identification of foothills areas which are subject to increased fire, flood, and erosion risks. A small portion of the at-risk area overlaps with the Redlands Planning Area, including the Santa Ana River Wash and the proposed Sunrise Ranch (Greenspot) development.

Guiding Policy: Fire Hazards

- 8.30a** Work to prevent wildland and urban fire, and protect lives, property, and watershed from fire dangers.

Implementing Policies: Fire Hazards

- 8.30b** Adhere to the requirements for high fire hazard areas designated by the Redlands Fire Department on the official Roof Classification Zone Map, updated as of June, 1994, and as specified in the document on file at the Redlands Fire Department describing High Fire Hazard Area Fire Safety Modification Zones.

GP Figure 8.1, Conceptual Fire Hazard Areas, is based on the Official Roof Classification Zone Map, which outlines areas within the City that have roofing material restrictions. Requirements include widths and lengths of cul-de-sacs and access streets, distances between turnouts, construction on slopes, buffers, setbacks, and more. GP Figure 8.1 shows high fire hazard areas that have been identified within the Planning Area.

- 8.30c** Monitor fire-flow capability throughout the Planning Area, and improve water availability if any locations have flows considered inadequate for fire protection.

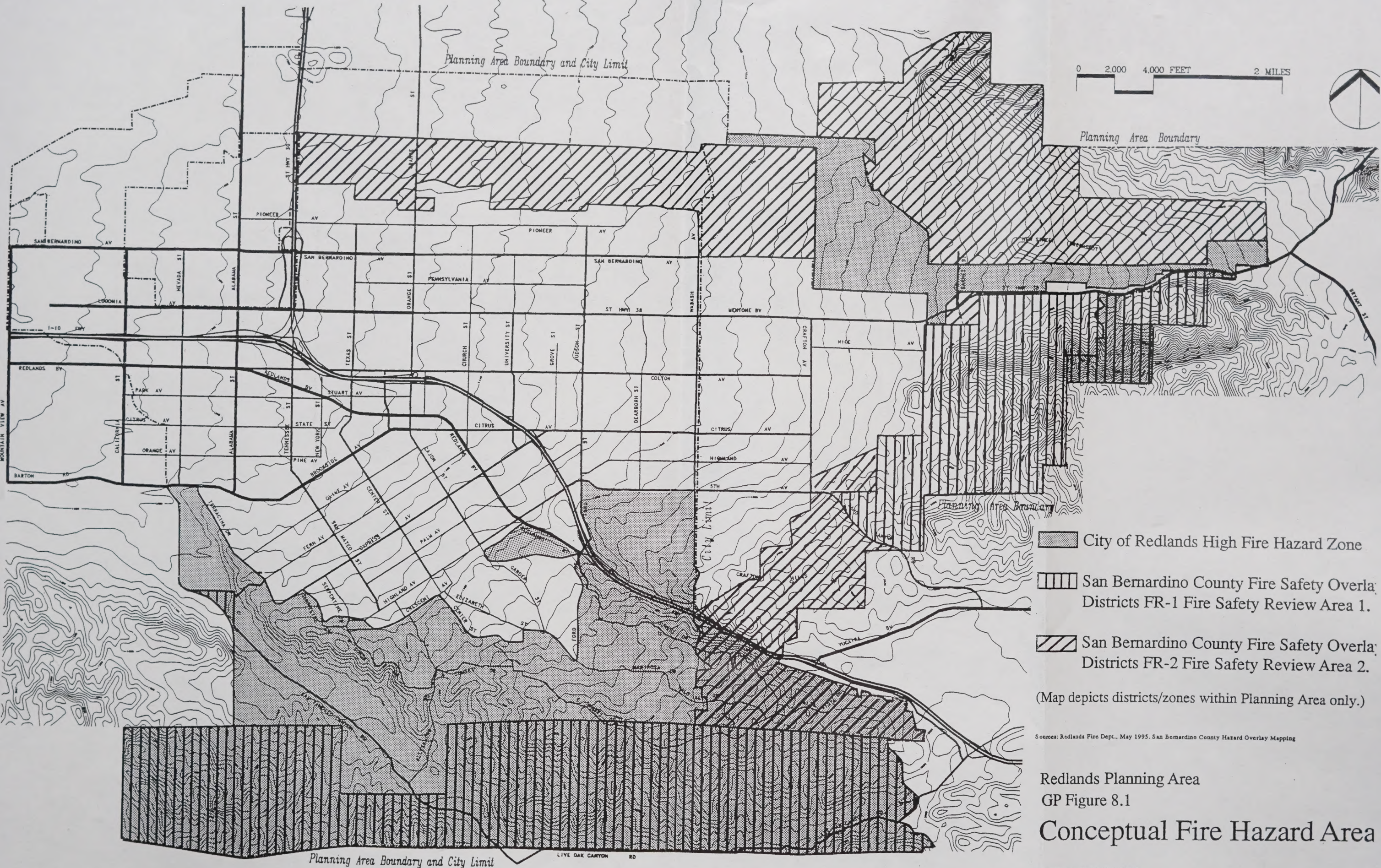
- 8.30d** Monitor methane gas production at active and inactive landfills, and take preventive action if gas production creates a significant fire hazard.

Monitoring at the California Street landfill has shown that methane gas was responsible for several small, on-site fires. The inactive Church Street landfill and active San Timoteo Canyon landfill should also be monitored.

- 8.30e** Devise alternative fire protection standards suitable for Rural Living areas not exposed to high wildland fire hazards.

The cost of installing an urban fire protection water system to serve Rural Living development in citrus groves may be prohibitive. Alternatives such as sprinklers and required on-site water storage may be adequate.

- 8.30f** Consult the San Bernardino County Fire Safety Overlay Ordinance (July, 1989 Development Code) for possible appropriate implementation measures for development in the foothills area. *The Fire Safety Overlay Ordinance is the successor to the "Foothill Communities Protective Greenbelt Program" which specifies parts of the Santa Ana River Wash and the proposed Sunrise Ranch (Greenspot) development area as a wildland/urban interface, subject to increased risk of fire, flood, or erosion. The Fire Safety Overlay Ordinance contains recommendations for access and traffic circulation, fuel modification zones, site and street identification, roadside vegetation specifications, water supply and system standards, construction and development design, erosion control, and several other requirements.*



- City of Redlands High Fire Hazard Zone
- San Bernardino County Fire Safety Overlay Districts FR-1 Fire Safety Review Area 1.
- San Bernardino County Fire Safety Overlay Districts FR-2 Fire Safety Review Area 2.

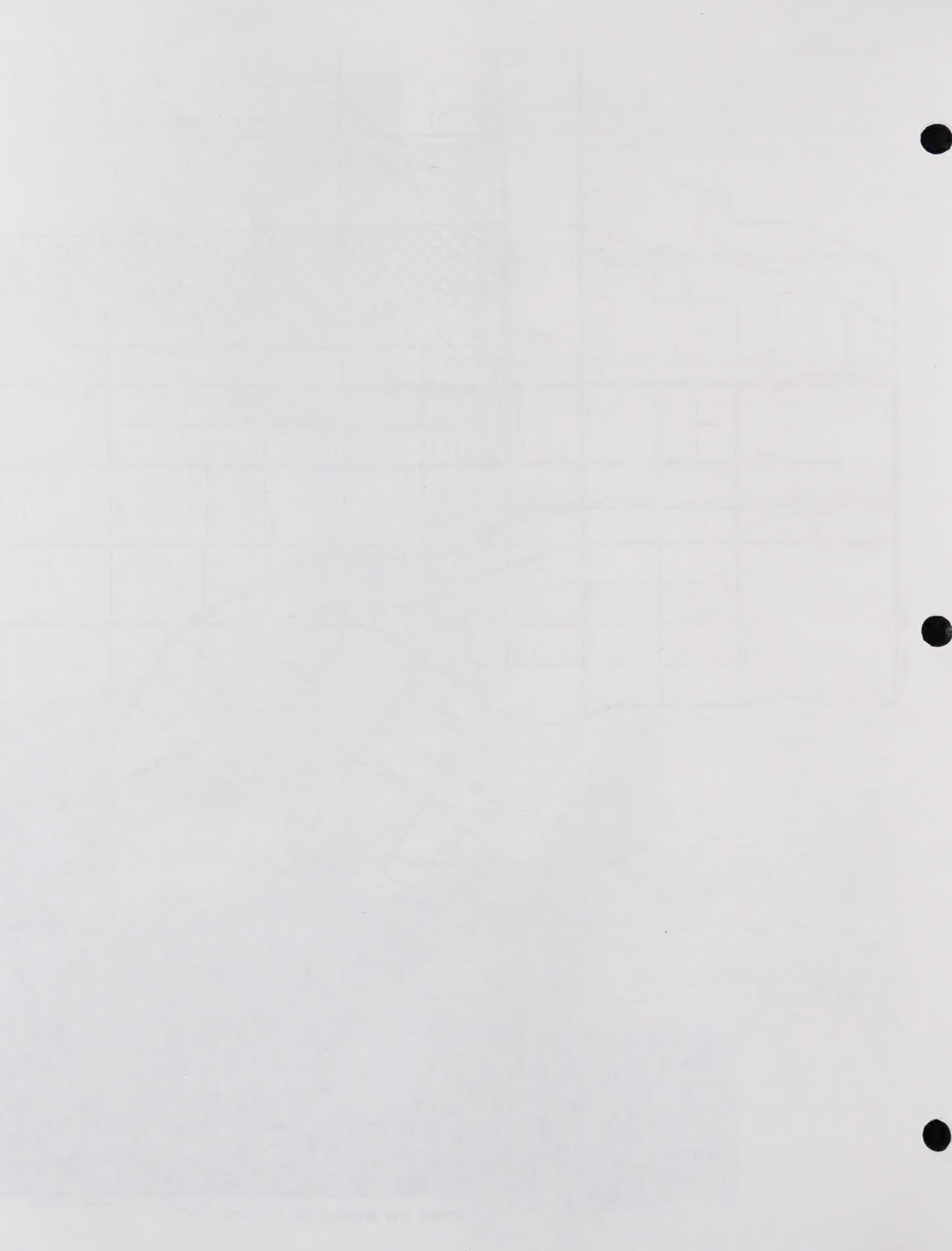
(Map depicts districts/zones within Planning Area only.)

Sources: Redlands Fire Dept., May 1995. San Bernardino County Hazard Overlay Mapping

Redlands Planning Area
GP Figure 8.1

Conceptual Fire Hazard Area

SMITH, PERONI & FOX
BLAYNEY, DYETT, GREENBERG
ESRI



- 8.30g** All projects proposed in areas that are at risk from wildfire shall adhere to requirements under Redlands Fire Department Prevention Standard "Fire Safety Modification, Zones 1 and 2".

The "Fire Safety Modification Standard" was updated by the Redlands Fire Department in May of 1995. This standard is subject to periodic review and update by the Redlands Fire Department.

8.40 Drainage and Flooding

The primary purpose of major flood control projects to be constructed in or near the Planning Area is to protect development to the west. However, Redlands' vulnerability to raging Santa Ana River and Mill Creek Zanja flood waters was demonstrated by the destructive floods of 1862, 1938, and 1969. Since then, numerous improvements have reduced hazards to lives and property. Additional flood improvements underway in 1991 include the Seven Oaks Dam (located to the northeast of the Planning Area, on the Santa Ana River), Mill Creek levee renovation, and final design of San Timoteo Canyon channel and debris basins.

The potential severity of flooding events requires careful long-range planning, and balancing uses. Growing environmental consciousness has led to a new understanding of the types of flood control measures appropriate to Southern California. Costs of an unmitigated disaster must be weighed against costs of land, construction, and maintenance, and balanced with long-range environmental concerns, such as groundwater recharge and habitat preservation. Flood and drainageways also have regional significance as areas of mineral resources (Section 7.40) and recreational uses (Section 7.10).

Guiding Policies: Drainage and Flooding

- 8.40a** Protect lives and property and ensure that structures proposed for sites located on flood plains subject to the 100-year flood are provided adequate protection from floods.

100-year flood boundaries are shown on GP Figure 8.2. Common methods of floodproofing an existing structure include constructing a small, encircling levee or floodwall, elevating the structure, or sealing it for watertightness.

- 8.40b** Preserve as open space those areas which cannot be mitigated for flood hazard.

Acceptable types of uses for flood prone areas classified as part of the Flood Plain District under Section 31.60 of the Redlands Zoning Ordinance include flood-control related uses, various types of agricultural uses, wildlife or habitat preserves and, with a conditional use permit, mineral resource excavation and removal, recreation and park areas, and parking lots.

- 8.40c** Support a multi-use concept of flood plains, flood-related facilities, and waterways, including, where appropriate, the following uses:

- ▶ flood control
- ▶ groundwater recharge
- ▶ mineral extraction
- ▶ open space
- ▶ nature study
- ▶ habitat preservation
- ▶ pedestrian, equestrian, and bicycle circulation
- ▶ outdoor sports and recreation.



 100 Year Flood Zones

NOTE:

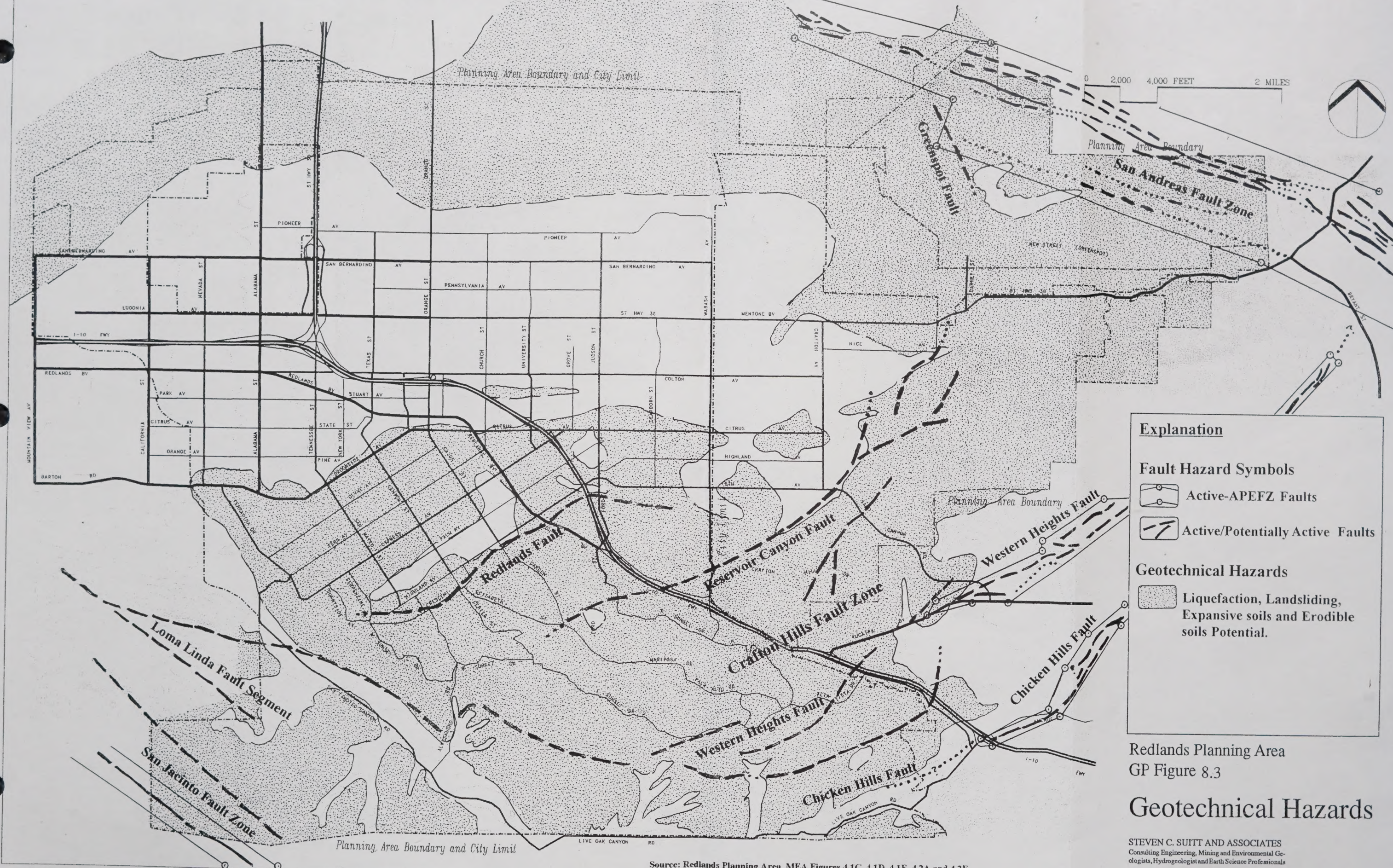
1. All identified 100 year flood zones (A, AE, AO, B, X, are subject to change as a result of improvements as th occur. Please see City of Redlands Flood Insurance Re Map for specific boundaries of 100 year flood zones
2. Construction of reach 1 has begun as of April, 1995. See MEA Figure 4.2 A

Sources: San Bernardino County Official Land Use Plan General Plan Hazard Overlays, FEMA Maps for City of Redlands.

Redlands Planning Area
GP Figure 8.2

Flood Zones

SMITH, PERONI & FOX
BLAYNEY, DYETT, GREENBERG
ESRI



Explanation

Fault Hazard Symbols

- Active-APEFZ Faults
- Active/Potentially Active Faults

Geotechnical Hazards

- Liquefaction, Landsliding, Expansive soils and Erodible soils Potential.

Redlands Planning Area
GP Figure 8.3

Geotechnical Hazards

STEVEN C. SUITT AND ASSOCIATES
Consulting Engineering, Mining and Environmental Geologists, Hydrogeologist and Earth Science Professionals

Source: Redlands Planning Area, MEA Figures 4.1C, 4.1D, 4.1E, 4.2A and 4.2E.



0 2,000 4,000 FEET 2 MILES



- 0 - 15% Slope
- 15 - 30% Slope
- > 30% Slope

Note: This map is to be used for general planning purposes, and it is not intended to preclude the need for site-specific study.

Sources: USGS; and ESRI.

Redlands Planning Area
GP Figure 8.4

Slope

SMITH, PERONI & FOX
BLAYNEY, DYETT, GREENBERG
ESRI

Balancing flood control with other uses involves prioritizing among uses, and must be an ongoing process. For example, implementation of the Santa Ana River Trail Master Plan will require close coordination between the City and several other agencies, including the County Flood Control District, to ensure that flood protection is not compromised by trail use, and vice versa.

- 8.40d** Where feasible given flood control requirements, maintain the natural condition of waterways and flood plains to ensure adequate groundwater recharge and water quality, preservation of habitat, and access to mineral resources.

- 8.40e** Coordinate with the U.S. Army Corps of Engineers and San Bernardino County throughout construction, mitigation, and operation of the various components/projects that make-up the "Santa Ana River Mainstem Project" that will directly affect the Planning Area. These projects include the following: the Seven Oaks Dam, the improvements to the Mill Creek levees (completed), and the planned improvements along the three reaches of the San Timoteo Creek Project. In addition to the coordinated effort on the projects mentioned above between the U.S. Army Corps of Engineers and San Bernardino County Flood Control District, the City of Redlands Public Works Department must be actively included in the development of any/all proposed flood control facilities along the reaches of the Mission Zanja Creek System.

The Santa Ana River Mainstem project, which involves U.S. Army Corps work on the areas mentioned in this policy, is expected to continue for several years. San Bernardino County Flood Control District, on behalf of the project sponsors and in conjunction with the Army Corps, has began implementation of biological mitigation in the Santa Ana River Wash. The Seven Oaks Dam will be operated by San Bernardino County Flood Control District.

- 8.40f** Support the intent of the County of San Bernardino's flood control policies as specified in the County General Plan.

The County's detailed flood policies specify a range of protective measures, encourage coordination among jurisdictions, and acknowledge the need for a multi-use concept of streams and creeks.

- 8.40g** Cooperate with all public and private agencies involved to ensure that flood control improvements do not disrupt environmentally sensitive areas beyond a level of mitigability.

While the California Environmental Quality Act (CEQA) provides protection to special status species, "habitats" per se are not recognized nor protected under CEQA. In addition, some species which are known locally to be sensitive may not be listed by the State or Federal governments as rare, threatened, or endangered. Mitigation for construction of the Seven Oaks Dam may involve preservation and enhancement of portions of the Santa Ana River Wash. (See Section 7.21, Biotic Resources.)

Implementing Policies: Drainage and Flooding

- 8.40h** Prepare a Master Drainage Plan for the Planning Area based on buildout of the General Plan.

This plan would allow compilation of information from the Water Master Plan, consultant flood and drainage studies, recently-completed (1994) Army Corps of Engineers' studies associated with the Santa Ana River Mainstem project, and projects associated with the Mission Zanja Creek System into an integrated whole.

- 8.40i** Prior to project approval in the vicinity of a waterway or drainage course, consult Flood Insurance Rate Maps on file with the Community Development Department to identify areas which have not been subject to detailed study; if the project falls within an area which has not been studied, require studies and, if necessary, require mitigation or restrictions on development.

Since Federal Emergency Management Agency (FEMA) flood studies of uninhabited areas are frequently not as detailed as those done for inhabited areas, sparsely populated areas slated for further development may need additional study to determine the historical extent of flooding.

- 8.40j** Work with the San Bernardino County Flood Control District to construct a detention basin in the Crafton area (Crafton Detention Basin) and/or other associated facilities to provide 100-year flood protection along the Mission Zanja Creek System, to reduce or eliminate downstream flooding.

- 8.40k** Prior to construction of the Crafton Detention Basin or other comprehensive drainage solution, consider proposed development within the 100-year flood plain of the Mission Zanja drainage system on a case-by-case basis, to determine whether flood-related mitigation is to be required.

Since the Crafton Detention Basin is not yet funded, its construction could occur at any time during the twenty-year General Plan horizon. Prior to its construction, people and property in the 100-year flood plain may be at risk. New development should be considered carefully in these areas. See related policy regarding park use in this area, in Section 7.10, Open Space and Conservation Element. Additional downtown drainage improvements are under consideration by the City.

- 8.40l** Implement stormwater facilities for the Mission Zanja and Morey Arroyo channels as specified in the Final EIR on the *East Valley Corridor Specific Plan*.

These improvements will be necessary to accommodate the significant increase in stormwater flows expected as a result of development in the Specific Plan Area.

- 8.40m** Prior to construction of the Crafton Detention Basin, identify critical facilities in flood hazard areas, and improve their level of protection, if necessary.

Critical facilities include fire and emergency service facilities, utility lifeline facilities such as water, electricity, and gas supply, sewage disposal, and communications and transportation facilities. Various measures may be employed to upgrade protection of critical facilities.

- 8.40n** Implement or work with other agencies to implement improvements that will provide the vicinity of the University of Redlands with 100-year flood protection.

The 1986 Mill Creek Zanja Detention Basin Study notes that construction of a Crafton Detention Basin would not control the 100-year storm event in the vicinity of the University of Redlands. This area requires additional consideration. The Comprehensive Drainage Study currently in progress will analyze potential solutions to this issue.

- 8.40o** Reduce the effects of surface runoff in developing areas by the use of extensive landscaping with an emphasis on native and drought-resistant species, minimizing impervious surfaces, and providing for recharge.

- 8.40p** Encourage timely FEMA map changes and annually incorporate mapped revisions to the 100-year flood zone into City hazards maps.

With completion of flood improvements throughout the City, the boundary of the 100-year flood zone will change. These changes should be promptly incorporated into existing maps.

- 8.40q** To reduce the possibility of significant changes in climate and regional hydrology that could lead to local flooding, support national and international efforts to protect the Earth's ozone layer, including policy to minimize or prevent the release of chlorofluorocarbons and similar gases.

Although flooding impacts on the Redlands Planning Area due to sea level rise or climatic change are not immediately obvious, noticeable changes in sea level or climate would be expected to significantly alter regional hydrology. Individual efforts to prevent the release of gases which contribute to the "Greenhouse Effect" might make only a tiny difference, but many individuals acting together could make a significant collective difference. Estimates for future rates of sea level rise vary widely, from about four inches over the next 50 years to estimates of up to 10 feet over the next 100 years.

- 8.40r** In the event of dam failure on the Seven Oaks or Bear Valley dams, implement emergency measures consistent with the City's Emergency Plan.

Dam failure, while considered unlikely, is among the hazards mentioned in the Emergency Plan.

- 8.40s** The City of Redlands will continue to coordinate with Crafton Hills Water District, the Bear Valley Mutual Water Company, the San Bernardino County Flood Control District, the U.S. Army Corps of Engineers, the Regional Water Quality Control Board, and any other public or private agencies affected by drainage to ensure the compatible use of these facilities.

8.50 Seismicity, Geology, and Soils

As in all of Southern California, safety planning efforts in Redlands center on potential impacts of earthquakes. The Planning Area lies between the best-known fault in California, the San Andreas, and the State's most active fault, the San Jacinto. According to the Southern California Earthquake Center (SCEC), the 30 year probability for M7.3 earthquakes on the San Jacinto and San Andreas faults within the Planning Area is 37 and 28 percent, respectively. Maximum horizontal ground accelerations from these 30 year probable earthquakes are anticipated to substantially exceed 0.4g, which is the current maximum Uniform Building Code design value. Other faults within or adjacent to the Planning Area may also be active. Environmental hazards including active faults, potentially active faults, liquefaction, landsliding, expansive and erodable soils are shown on GP Figure 8.3, Geotechnical Hazards.

The dangers of living on an alluvial plain or steep hillsides in a seismically active region range from the effects of fault rupture to the many manifestations of severe shaking: landslides and slope collapse, subsidence, liquefaction, and dam failure. General Plan policies stress avoidance of construction in active fault zones, geotechnical study prior to construction in hazard areas, and public awareness and education. Plan policy supports the continued use of the City's building inspection program to identify and upgrade high-risk unreinforced masonry buildings.

The Planning Area is framed to the north, south and east by slopes subject to erosion and non-seismically initiated landslides, mudslides, or slope collapse. Subsidence may occur in steep or flat portions of the Planning Area that experience excessive groundwater withdrawal. Soils in the Planning Area are also

The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that proper record-keeping is essential for the integrity of the financial system and for the ability to detect and prevent fraud.

The second part of the document outlines the specific procedures for recording transactions. It details the steps involved in the accounting cycle, from identifying the transaction to posting it to the appropriate ledger account. It also discusses the importance of double-checking entries to ensure accuracy.

The third part of the document discusses the role of the auditor in verifying the accuracy of the records. It explains how the auditor uses various techniques, such as sampling and tracing, to test the reliability of the financial statements.

The fourth part of the document discusses the importance of internal controls in preventing errors and fraud. It describes how well-designed internal controls can help ensure that transactions are recorded accurately and that assets are protected.

The fifth part of the document discusses the role of the management in ensuring the integrity of the financial system. It emphasizes that management has a responsibility to establish a strong ethical culture and to implement effective internal controls.

The sixth part of the document discusses the importance of transparency and disclosure in financial reporting. It explains that providing clear and accurate information to investors and other stakeholders is essential for maintaining trust in the financial system.

The seventh part of the document discusses the role of the regulatory bodies in overseeing the financial system. It describes how these bodies, such as the SEC and the FDIC, work to protect investors and ensure the stability of the financial system. It also discusses the importance of cooperation between regulators and industry participants.

The eighth part of the document discusses the importance of ongoing monitoring and evaluation of the financial system. It explains that regular reviews and assessments are necessary to identify areas for improvement and to ensure that the system remains effective and efficient.

The ninth part of the document discusses the role of the public in the financial system. It emphasizes that the public has a right to know how the system is operating and to have a say in how it is managed. It also discusses the importance of public participation in the development of financial regulations.

The tenth part of the document discusses the importance of international cooperation in the financial system. It explains that global financial markets are increasingly interconnected, and that effective regulation requires coordination and collaboration between countries.

The eleventh part of the document discusses the importance of innovation in the financial system. It explains that new technologies and business models are constantly emerging, and that the system must be able to adapt to these changes in order to remain relevant and effective.

The twelfth part of the document discusses the importance of education and training in the financial system. It explains that a well-educated and trained workforce is essential for the system to function properly. It also discusses the importance of ongoing professional development for financial professionals.

subject to collapse, hydroconsolidation and expansive soil concerns. Geologic and soils policies and Zoning Ordinance provisions seek to minimize occupation of steep or unstable lands. Steep slopes are shown on GP Figure 8.4, Slope.

Soil types within the Planning Area range from no development restrictions to severe limitations for construction. It is important for the City to recognize the potential development/construction limitations of these soil types.

Guiding Policies: Seismicity, Geology, and Soils

- 8.50a** Investigate and mitigate geologic and seismic hazards, or locate development away from such hazards, in order to preserve life and protect property.

Areas of unmitigable hazards should be preserved as open space.

- 8.50b** Support implementation of San Bernardino County General Plan policies relating to geologic and seismic hazards, and consult with the San Bernardino County Geologist where conflicting information exists or where no published information is available.

To some extent sources vary or present incomplete coverage of the locations of faults and areas subject to liquefaction and landslides. The County Geologist, as well as USGS and the State Division of Mines and Geology (DMG), can provide a resolution to some of these issues, or references to the latest sources of information.

Implementing Policies: Seismicity, Geology, and Soils

- 8.50c** Continue to restrict development within Alquist-Priolo Earthquake Fault Zones and other active/potentially active faults which have not yet received Alquist-Priolo classification.

California's Alquist-Priolo Earthquake Fault Zoning Act went into effect in 1973, and has been amended several times. The purpose of this Act is to prohibit the location of most structures for human occupancy across the traces of active faults and to thereby mitigate the hazard of fault rupture. Under the Act, the Division of Mines and Geology (DMG) has delineated Earthquake Fault Zones along active faults in California and jurisdictions containing these zones must then regulate certain types of development within these zones. The San Andreas and San Jacinto faults, which bound the Planning Area, as well as the less-well-known Western Heights and Chicken Hill fault zones east of the Planning Area, have been classified as Earthquake Fault Zones under the Alquist-Priolo Earthquake Fault Zoning Act. These areas are identified on GP Figure 8.3.

- 8.50d** Consult with the Division of Mines and Geology if there are issues or questions concerning fault alignment. Evaluate and, if necessary, perform site specific investigation for development proposed on or near Alquist-Priolo Earthquake Fault Zones as well as within 500' of other active/potentially active faults as depicted on GP Figure 8.1.

- 8.50e** Require areas identified as having significant liquefaction potential (including secondary seismic hazards such as differential compaction, lateral spreading, settlement, rockfall, and landslide) to undergo geotechnical study prior to development; mitigate the potential hazard to a level of insignificance; if mitigation is not possible, preserve these areas as open space or agriculture.

The first part of the report is a general introduction to the project. It describes the purpose of the study, the objectives, and the scope of the work. It also provides a brief overview of the methodology used in the study.

The second part of the report is a detailed description of the methodology used in the study. It includes a description of the data collection methods, the data analysis methods, and the statistical tests used.

Results and Discussion

The results of the study are presented in this section. It includes a description of the data, the results of the data analysis, and the results of the statistical tests.

The discussion of the results is presented in this section. It includes a description of the results, a discussion of the results, and a conclusion.

The conclusion of the study is presented in this section. It includes a summary of the results, a discussion of the results, and a conclusion.

The final part of the report is a bibliography. It lists the references used in the study.

Appendix

The appendix of the report contains the raw data used in the study. It is presented in a table format.

The appendix also contains the results of the data analysis. It includes a description of the data, the results of the data analysis, and the results of the statistical tests.

The appendix also contains the results of the statistical tests. It includes a description of the results, a discussion of the results, and a conclusion.

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The San Bernardino County Geologic Hazard Overlay map shows the Santa Ana River Wash and portions of adjacent areas as having a high susceptibility to liquefaction, on a generalized basis. The liquefaction information on the County map is based on USGS data (1991).

- 8.50f** Monitor studies related to induced seismicity; if further studies establish a conclusive relationship between reservoir drawdown, refilling, and seismic activity, encourage San Bernardino County to manage the Seven Oaks Dam water regime to reduce risk.

Evidence thus far suggests a relationship between reservoir drawdown, refill, and subsequent seismic activity, as seen in the 1975 Cleveland Hill earthquake, thought to have occurred after unprecedented drawdown and refilling of Lake Oroville in Northern California.

- 8.50g** Use the building inspection program to inventory and evaluate earthquake hazards in existing buildings using the most current seismic design standards and hazard reduction measures, and continue the program for the systematic upgrading of seismically unsafe buildings. Continue to explore measures to induce building owners to upgrade and retrofit structures to render them seismically safe.

Unreinforced masonry buildings are clustered in the downtown area and pose the greatest earthquake hazard. About 15 percent of these buildings have recognized historic value.

- 8.50h** Develop a City-based public awareness/earthquake preparedness program, to educate the public about seismic hazards, and what to do in the event of an earthquake.

Seismic hazard education could take the form of distributing an information pamphlet through libraries, schools, or utilities bills, and community-wide simulations. The City should coordinate with the San Bernardino geologic educational program, which covers hazards, abatements, and emergency plans and procedures.

- 8.50i** Continue to regulate development on slopes greater than 15 percent (15 foot rise in 100 feet run) to minimize soil erosion, landslides, water runoff, flood hazards, loss of habitat, and wildfire hazards. Designate land exceeding 30 percent slope as Resource Conservation on the General Plan Diagram and limit development to one housing unit per 10 acres or one housing unit per parcel existing on the date of adoption of the General Plan if under 10 acres. Transferring densities from steeper areas to flatter portions of the site is desirable and preferred.

This policy is designed to preserve natural landforms and vegetation, prevent mass grading, and reduce landslide risks. Density limitations specified in the Zoning Ordinance also serve these functions and ensure the efficient expenditure of funds for public facilities and services. See also Section 4.40 in Residential Land Use, Land Use Element.

- 8.50j** Consider amendment of the Zoning Ordinance to include restrictions for soil types with developmental constraints similar to those on the Saugus Sandy Loam series as follows:

1. Any proposed development must consider the potential for soil erosion, both during and after construction.
2. Since these soils are prone to hydrocollapse, the City should require developers to hire a geotechnical engineer to conduct site-specific studies and recommend remedial measures, if needed.
3. If on-site sewage disposal systems (septic tanks) are to be used, the developer must demonstrate that the soils have sufficient percolation capacity; and

4. There are existing natural landslides in this area, and development can create new landslides. Therefore, the City should require all developers retain a geotechnical engineer and an engineering geologist to assess the impact of a proposed development on the stability of slopes.

Saugus and similar soils are shown on GP Figure 8.1. Other soil types recognized by the Soil Conservation Service as having severe limitations for construction of dwellings within the Planning Area are the Cieneba-Friant sandy loams and eroded Ramona sandy loams on 15 to 30 percent slopes. Maps of these soils' distribution are on file with the City.

- 8.50k** For new construction and exterior building expansions including multi story additions or lateral expansions as deemed appropriate by the City Building Department, require the preparation of a geotechnical/soils/geologic report by a registered civil geotechnical/soils engineer and a certified engineering geologist. This report shall address erodible, expansive and collapsible soils, existing or potential landslides, areas with unsuitable percolation characteristics, large scale subsidence, non rippable bedrock areas, ground motion parameters, active/potentially active faulting, liquefaction, and any other geotechnical concepts as appropriate and make recommendations for mitigating any potential adverse impacts.

- 8.50l** Require soil erosion mitigation during construction.

See also Policy 8.20o.

- 8.50m** Adopt revisions of the Uniform Building Code which incorporate the most current seismic design standards and hazard reduction measures recommended by the Applied Technology Council (ATC) the Structural Engineers Association of California (SEAOC), the Earthquake Engineering Research Institute (EERI), the Seismic Safety Commission, and the Southern California Earthquake Center.

- 8.50n** Ensure that the Emergency Management Plan addresses seismic hazards, including hazardous materials incidents, hazardous buildings, critical facilities (i.e., schools, hospitals), emergency response preparedness and recovery with consideration to evacuation routes, peak load water supply requirements and minimum road width/clearance around structures.

8.60 Wind Hazards

Redlands, like most of San Bernardino County, is subject to periodic high winds, particularly those known as the Santa Anas. Named for the mountains and canyons through which they pass, these winds typically occur several times per year, often between September and December, and have been measured throughout the County at speeds approaching or exceeding 100 mph. The Santa Anas have been blamed for traffic accidents, power outages due to downed power lines, deaths due to airborne debris, wind erosion, high levels of particulate matter in the air and, perhaps most significantly, devastating fires.

The California Department of Forestry and Fire Protection has identified these winds as a critical weather element in the start and spread of uncontrolled fires. Winds supply fresh oxygen to fires, quicken their spread by carrying burning fire brands, and bending flames forward while further increasing air temperatures and dehydrating both the air and available fuels. Turbulent and erratic winds exemplified by a Santa Ana condition also hinder firefighters on the ground by causing unpredictable fire fronts and rendering the use of aircraft difficult or impossible.

Although measurements have not been made, observers have noted that Redlands generally seems to be spared the full impacts of the Santa Anas by the buffering presence of the San Bernardino Mountains. There can be great differences in wind impacts over short distances, however, due to topographic variation, and what is true

for much of the Planning Area may not be true elsewhere. In particular, undeveloped portions of the Planning Area may have been subject to less scrutiny, since observers may not be present to experience or report on wind intensities.

Guiding Policy: Wind Hazards

- 8.60a** Protect people and property from the adverse impacts of high winds.

Implementing Policies: Wind Hazards

- 8.60b** Identify areas susceptible to high winds, if any, as data become available.

County wind hazard policies specify the future mapping of wind hazard areas. While recognizing the dearth of mapped information on wind hazards, County policies provide for future mapping of high wind areas as data become available, adoption of protective design measures for critical, essential, and high occupancy structures, upgrading for susceptible facilities, and various measures to reduce wind-induced erosion. The neighboring City of San Bernardino has mapped areas of high wind hazard, and applies stringent conditions for the construction of buildings and public facilities. Identification of hazard areas should be based on wind speed measurements and reports of damage.

- 8.60c** Ensure that buildings and public infrastructure are constructed and sited to withstand high wind velocities, as data becomes available.

Implementation of this policy requires that areas of high wind velocity are identified first, in accordance with Policy 8.60b above.

8.70 Electromagnetic Fields

After several years of analysis of dozens of studies exploring a possible connection between cancer and extremely low frequency (ELF) electromagnetic fields, the EPA has concluded that a growing body of data suggests a causal link. Although measurable, the intensity of electromagnetic fields is not related to any yet-established health standards, and effects on human tissue are subtle, complex, and poorly understood. Some independent researchers state that cancer or other types of health risk may be associated with long-term residence close to high-voltage power lines and substations. Congressional bills that would boost Federal funds for research into the biological effects of electromagnetic fields, including fields from high voltage power lines in residential areas, are under consideration. Southern California Edison's 220 kilovolt transmission lines traversing from the southwest to the northwest corner of the Planning Area are remote from existing housing.

Guiding Policy: Electromagnetic Fields

- 8.70a** Support research on the health effects of electromagnetic fields generated by power transmission lines and other sources, and take appropriate action, if warranted, to reduce hazardous exposure.

If causal links are better established between high-voltage power lines or substations and health impacts, protective measures might include maintaining setbacks from potential future transmission lines and substations or undergrounding transmission lines.

- 8.70b** Insist on adequate setbacks from schools, housing, and care facilities for any additional high voltage power lines or substations to be constructed in the Planning Area.

The California State Department of Education, School Facilities Planning Division, maintains standards for distance from schools according to voltage.

8.75 High Pressure Fuel Lines

High pressure gas lines (greater than 60 pounds) run along Mountain View Avenue on the western edge of the Planning Area, turning southeast at Mission Road. At California Street the lines jog north, continuing east and south along Orange Avenue to Tennessee Street, State Street, Eureka Street, Redlands Boulevard, Reservoir Road, Wabash Avenue, Panorama Drive, and entering Yucaipa along Hampton Road and Dunlap Boulevard. Another high pressure gas line stretches along Sand Canyon Road and Crafton Avenue. Smaller gas lines carried in pipe ranging from three to eight inches are distributed throughout most of the Planning Area. These facilities are shown on maps on file with the City of Redlands.

A high pressure 20" petroleum line extends through Redlands in San Timoteo Canyon within the Santa Fe Pacific Railroad right-of-way. Multiple types of petroleum products to include oil, gasoline and jet fuels are being transported through this line which extends from El Segundo in the Los Angeles basin to Phoenix, Arizona and Las Vegas, Nevada.

Guiding Policy: High Pressure Fuel Lines

8.75a Protect residents from the potential dangers of broken or damaged fuel lines.

Implementing Policies:

8.75b Develop an emergency response plan that adequately addresses the impacts of a broken natural gas or petroleum line in the City. Coordination is needed between the Police and Fire Departments and Southern California Gas Company and Santa Fe Pacific Pipelines.

8.75c Provide sufficient setbacks from schools, housing, and care facilities for fuel lines which are existing or to be constructed in the Planning Area.

8.80 Airport Safety

The Redlands Municipal Airport Land Use Compatibility Plan was adopted by the City Council on February 18, 1997 (Resolution 5344). This plan addresses airport land use compatibility concerns in the following areas:

Exposure to aircraft noise;

Land use safety with respect both to people and property on the ground and the occupants of the aircraft;

Protection of airport airspace; and

General concerns related to aircraft overflights

The Redlands Municipal Airport Land Use Compatibility Plan established land use compatibility zones based on airport traffic patterns, existing land uses, distinct geographic features, and other factors unique to the Redlands Municipal Airport and its environs. Potential land use development is to be judged compatible with the airport based on criteria set forth in the Primary Compatibility Criteria Matrix contained in the Airport Land Use Compatibility Plan (ALUCP).

Guiding Policy: Airport/Aviation Safety

8.80a Implement the policies and standards of the Redlands Municipal Airport Land Use Compatibility Plan.

Implementing Policy: Airport/Aviation Safety

- 8.80b** All projects within the Compatibility Zone Boundaries established by the Redlands Municipal Airport Land Use Compatibility Plan shall be reviewed by the city for conformity to the criteria set forth in the Primary Compatibility Criteria Matrix of the Airport Land Use Compatibility Plan (ALUCP).

8.90 Emergency Management

City Emergency Plan. The City of Redlands Emergency Plan is the guiding document in the event of emergencies in the Planning Area. According to the Emergency Disaster Plan, which is continually updated every two years, the potential for a major calamity increases with the urbanization of previously unpopulated areas, and with the advent of industrial processes using hazardous materials. The Emergency Disaster Plan notes that the impact of disasters such as earthquakes, fires, and floods has become magnified as more high-risk land in the region is developed in response to pressure of urban growth. In addition, the unprecedented use of hazardous chemicals in industry and agriculture increases the potential for disaster. Transportation accidents can almost instantaneously produce mass casualties. Social unrest can grow to major proportions and erupt into riots, resulting in loss of life and destruction of property.

The Emergency Plan identifies numerous hazardous situations to which the City will respond. Of these, earthquake, flood, dam failure, and fire are addressed in other sections, and their impacts are intended to be minimized through implementation of General Plan policies. (See Section 8.50 for earthquakes, 8.40 for flood and dam failure, and 8.30 for fire.) Additional calamities covered by the Emergency Plan include war, terrorist acts, transportation accidents, industrial accidents, civil disturbance, storms, pollution, epidemic, and hazardous or radiological materials spills, major gas line ruptures, drought, and extreme heat.

Evacuation routes. The Emergency Disaster Plan identifies specific evacuation routes within the Planning Area. The San Bernardino County General Plan (1993) designates potential evacuation routes in the event of an emergency. Within the San Bernardino Valley, the major routes out of the County are Interstates 10, 15, and 215, along with State Highways 30, 31, 60, 66, 71, and numerous major and secondary highways. This list is not intended to be comprehensive, and specific evacuation routes would be designated during a specific emergency, since earthquakes, floods, fires, or other disasters may make certain routes impassable.

In addition to the above potential evacuation routes, Caltrans has identified a number of possible evacuation routes in the San Bernardino Valley. These roads have the least number of bridges, and may be among the safest roads to travel in the event of a major earthquake. In the East Valley, those roads which connect with the Planning Area include:

- ▶ Hospitality Drive from Tippecanoe Avenue to Waterman Avenue
- ▶ Coulston Street from Mountain View Avenue to Tippecanoe Avenue
- ▶ Lugonia Avenue from Orange Street to Mountain View Avenue
- ▶ Redlands Boulevard from Orange Street to Waterman Avenue

Routes leading away from the Planning Area and crossing through the City of San Bernardino rely on parts of Barton Road, Waterman Avenue, Mill Street, E Street, Kendall Drive, La Cadena Drive, Mt. Vernon Avenue, Highland Avenue, and Cajon Boulevard. Throughout the Planning Area, a system of recreational use trails may be used for emergency evacuation routes.

Cooperative efforts. In the event of an emergency, the City would, to the extent possible, coordinate efforts with San Bernardino County, surrounding jurisdictions, the State of California Office of Emergency Services, and the Federal Emergency Management Agency (FEMA). Redlands also cooperates with surrounding police and fire departments under formal mutual aid pacts. The City of Redlands also comes under the purview

of the California Emergency Services Act, which provides for mutual aid in any functional area. The American Red Cross and other professional volunteer organizations provide assistance during natural disasters, operating independently of, but in cooperation with local government.

Activation of Emergency Plan. The City of Redlands Emergency Disaster Plan becomes operative automatically by the existence of a State of War Emergency as defined by the California Emergency Services Act, or when the Governor has proclaimed a State of Emergency in an area including the City, or on the orders of the City Council, in accordance with local ordinance. The City would also be included in an emergency declaration of the County, unless stipulated otherwise.

Guiding Policies: Emergency Management

8.90a Use the City of Redlands Emergency Disaster Plan as the guide for disaster planning in the Redlands Planning Area.

8.90b Aim for City-level self-sufficiency in emergency response.

While multijurisdictional planning is an ideal, in the event of a regionwide disaster the emergency services of the County, State, and Federal agencies and of adjacent locales may be severely strained. Slippage on the San Andreas or San Jacinto faults, for example, could interrupt communication with outside emergency services, or cut off certain evacuation routes. This type of severe disaster may require the City to handle the crisis in relative isolation.

Implementing Policies: Emergency Management

8.90c Continue to update and revise the Emergency Disaster Plan as needed, to reflect changes in the Planning Area and changes in emergency management techniques.

Addition of population and ongoing construction may necessitate revision of details of the Emergency Plan.

8.90d Establish community programs to train volunteers to assist police, fire, and civil defense personnel during and after a major earthquake, fire, flood, or other major disaster.

The City can encourage this training by publicizing courses available to the public in standard CPR and First Aid, as well as disaster-oriented training. The Emergency Plan should specify locations to which volunteers can report during an emergency, and should include listings of appropriate jobs for volunteers. The City's Personnel Section and the San Bernardino County American Red Cross should coordinate their efforts in the recruitment and training of volunteers.

8.90e Initiate planning for long-term recovery from disaster. Coordinate with on-going planning efforts in San Bernardino County.

The long-term recovery process may continue for a period up to 10 years.

9.0 NOISE ELEMENT

REDLANDS GENERAL PLAN

9.0 NOISE ELEMENT

The Noise Element provides a comprehensive program to achieve and maintain land use compatibility with environmental noise levels. It identifies noise sources and noise sensitive land uses, and defines in the text or on a map areas of noise impact for the purpose of developing programs to ensure that Redlands residents will be protected from excessive noise intrusion, both now and in the future. Everyday sounds normally range from 30 dBA (very quiet) to 100 dBA (very loud).

The Noise Element follows State guidelines in the State Government Code Section 653021(g) and Section 46050.1 of the Health and Safety Code. The text, GP Figure 9.1, Projected Noise, Buildout, tables, and illustration which comprise the Element quantify the long-term community noise environment based on traffic projections at buildout. A Technical Appendix published within the Master Environmental Assessment (including MEA Figure 14.1 showing baseline 1994 noise levels within the Planning Area) contains a more comprehensive inventory of current and forecast noise conditions, background information on noise, health effects of noise, methodology, measurement and modeling results, and bibliography.

Noise has been defined as unwanted sound and it is known to have several adverse effects on people. From those known effects of noise, criteria have been established to help protect the public health and safety and prevent disruption of certain human activities. This criteria is based on such known effects of noise on people as hearing loss (not generally a factor with community noise), communication interference, sleep interference, physiological responses and annoyance. Each of these potential noise impacts are briefly discussed below:

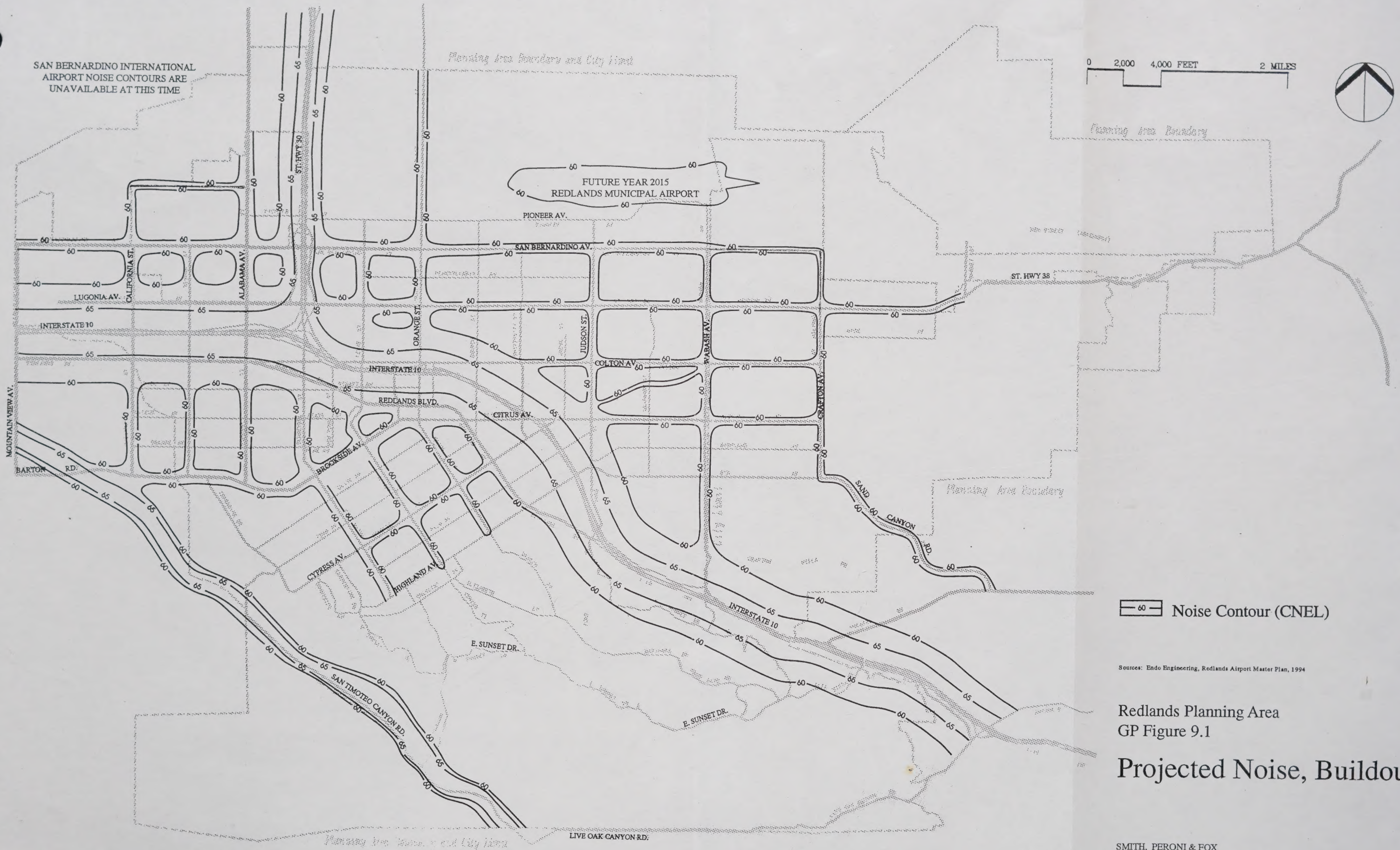
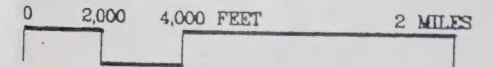
Hearing Loss. Hearing loss is not, in general, a concern in community noise problems. The potential for noise induced hearing loss is more commonly associated with occupational noise exposures in heavy industry or very noisy work environments with long-term exposure. The Occupational Safety and Health Administration (OSHA) identifies a noise exposure limit of 90 dBA for 8 hours per day to protect from hearing loss. Noise in neighborhoods, even in very noisy airport environments near major international airports, is not sufficiently loud to cause hearing loss.

Communication Interference is one of the primary concerns in environmental noise problems. Communication interference includes speech interference and interference of activities such as watching television. Normal conversational speech is in the range of 60 to 65 dBA and any noise in this range or louder may interfere with speech. There are specific methods of describing speech interference as a function of distance between speaker and listener and voice level. GP Figure 9.2, Speech Communications as a Function of Background Noise Level, shows the percent of sentence intelligibility with respect to various noise levels.

Sleep Interference is a major noise concern in noise assessment and, of course, is most critical during nighttime hours. Sleep disturbance is one of the major causes of annoyance due to community noise. Noise can make it difficult to fall asleep, create momentary disturbances of natural sleep patterns by causing shifts from deep to lighter stages and cause awakening. Noise may even cause awakening that a person may or may not be able to recall.

Extensive research has been conducted on the effect of noise on sleep disturbance. Recommended values for desired sound levels in residential bedroom space range from 25 to 45 dBA with 35 to 40 dBA being the norm. The National Association of Noise Control Officials has published data on the probability of sleep disturbance with various single event noise levels. Based on experimental sleep data as related to noise exposure, a 75 DBA interior noise level event will cause noise induced awakening in 30 percent of the cases.

SAN BERNARDINO INTERNATIONAL
AIRPORT NOISE CONTOURS ARE
UNAVAILABLE AT THIS TIME



 Noise Contour (CNEL)

Sources: Endo Engineering, Redlands Airport Master Plan, 1994

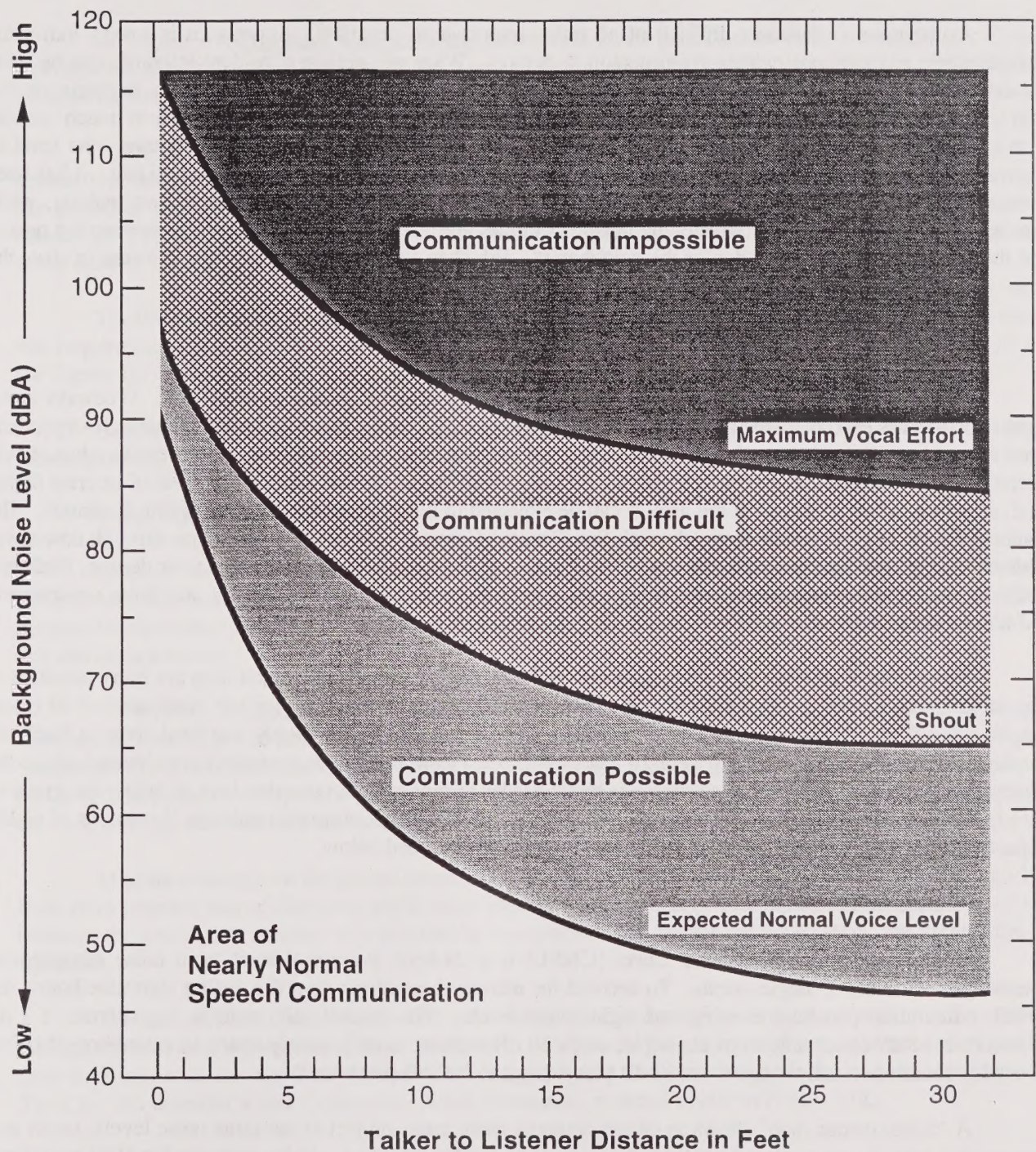
Redlands Planning Area
GP Figure 9.1

Projected Noise, Buildou

SMITH, PERONI & FOX
BLAYNEY, DYETT, GREENBERG
ESRI



GP Figure 9.2
Speech Communication as a Function
of Background Noise Level



Source: Miller, "Effects of Noise on People", Journal of Acoustical Society of America, V.56, No.3, 9/74

Physiological Responses are those measurable effects of noise on people which are realized as changes in pulse rate, blood pressure, etc. While such effects can be induced and observed, the extent is not known to which these physiological responses cause harm or are signs of harm. Generally, physiological responses are a reaction to a loud short term noise such as a rifle shot or a very loud jet overflight.

Annoyance is the most difficult of all noise responses to describe. Annoyance is a very individual characteristic and can vary widely from person to person. What one person considers tolerable can be quite unbearable to another of equal hearing capability. The level of annoyance, of course, depends on the characteristics of the noise (i.e., loudness, frequency, spectra, time, and duration), and how much activity interference (e.g., speech interference and sleep interference) results from the noise. However, the level of annoyance is also a function of the attitude of the receiver. Personal sensitivity to noise varies widely. It has been estimated that 2 to 10 percent of the population is highly susceptible to noise not of their own making, while approximately 20 percent are unaffected by noise. Attitudes are affected by the relationship between the person and the noise source. (Is it our dog or the neighbor's?) Whether we believe that someone is trying to abate the noise will also affect our level of annoyance.

Noise Sources and Receptors

The predominant noise sources in Redlands are motor vehicles, aircraft, and trains. Freeways and a number of arterials expose nearby areas to significant noise levels. Aircraft from Redlands Municipal Airport and other aircraft overflights impact the Planning Area. Although military use of Norton Air Force Base has ended, aircraft occasionally use the airport. Depending on the eventual reuse of that facility, the level of aircraft flights (and, therefore, noise) generated at the airport can be expected to increase, affecting areas within Redlands. The Southern Pacific railroad mainline runs through San Timoteo Canyon. The Santa Fe line runs through downtown Redlands and the residential areas to the east before turning north through Mentone. To a lesser degree, Redlands is also exposed to noise emanating from sources such as industrial and commercial facilities, and from construction and human activities.

Noise affects all types of human activities and land uses, although some land uses are more sensitive to high noise levels than others. Land uses in Redlands identified as noise sensitive include residences of all types, hospitals, rest homes, convalescent hospitals, churches and schools. The most highly impacted areas in Redlands are the residences located adjacent to the I-10 freeway, especially where freeway sections are elevated above the adjacent land uses. An elevated noise source is much harder to mitigate than one that is at or below the grade of the adjacent land uses unless a noise barrier is constructed at the edge of the elevated roadway. Locations of highly impacted areas may be found on the noise contour maps, as described below.

Noise Contour Maps

Community Noise Equivalent Level (CNEL) is a 24-hour average describing a noise environment consisting of a variety of single events. To account for increased sensitivity to noise during nighttime hours, the CNEL calculation penalizes evening and night sound levels. The decibel (dB) scale is logarithmic; a 3 dB difference is barely discernible to most people, and a 10 dB increase is subjectively heard as a doubling of noise. Everyday sounds normally range from 30 dB (very quiet) to 100 dB (very loud).

A "noise contour map" shows as closed contours those areas subject to the same noise levels, much as a topographic map shows as closed contours those areas of similar elevation. Noise contours for 1994 conditions are reproduced in the MEA as MEA Figure 14.1, Existing Noise, 1994. The number of homes exposed to roadway noise levels greater than 60 CNEL in the future will increase due to future residential construction and traffic volume increases. The number of homes exposed to aircraft noise is anticipated to increase or decrease depending upon the reuse of Norton Air Force Base. In order to protect residents from excessive noise from aircraft overflights, the City Council has maintained a policy of restricting residential development under the 65

CNEL airport noise contour. The General Plan proposes no new residential units within the Airport 65 CNEL Contour. Railroad-related noise is anticipated to stay about the same (with an average 28 daily train operations) and will subject new homes within 600 feet of the track in San Timoteo Canyon to noise levels exceeding 60 CNEL.

GP Figure 9.1, Projected Noise, Buildout, shows noise levels projected for buildout conditions. Contours represent the dB CNEL noise level measured from the street centerline, and do not include the mitigating effect of noise barriers or topography.

The 60 dB CNEL contours are shown on both MEA Figure 14.1 and GP Figure 9.1. The 60 dB CNEL contour represents the outer boundary of the Noise Referral Zone, within which any proposed noise sensitive land use should be evaluated on a project-specific basis and may require mitigation to meet City or State (Title 24) standards. The 65 CNEL contours are also shown on the figures where they are far enough from a roadway to allow them to be seen at this scale.

The 60 CNEL contour represents the level for which any new residential development that is not shielded will require mitigation in order to comply with local noise standards. It is easily seen on MEA Figure 14.1 and GP Figure 9.1 that some residential areas are and will be exposed to noise levels that exceed 60 CNEL.

Existing noise contours, based upon noise measurements taken throughout the City, were used as a guide for establishing a pattern of land uses that minimizes noise exposure to the community.

Policy Approach to Mitigation

State and federal agencies regulate vehicle noise emission from the source, but local governments have little direct control of transportation noise at the source. The most effective methods available to the City to mitigate transportation noise are locating sensitive uses away from noise sources, construction of noise barriers, and site design review.

GP Table 9.1, Land Use Compatibility for Community Noise Environments, may be used to assess the compatibility of proposed land uses with the noise environment. These criteria are the basis for specific Noise Standards. These standards, shown in GP Table 9.2, Interior and Exterior Noise Standards, are the General Plan policy for acceptable noise exposure. They are the primary tools that allow the City to ensure integrated planning for compatibility between land uses and outdoor noise.

Mitigation through the design and construction of a noise barrier (wall, berm, or combination wall/berm) is the most common way of alleviating traffic noise impacts. A noise barrier effect occurs when the "line of sight" between the source and receiver is penetrated by the barrier. The greater the penetration, the greater the noise reduction.

The most effective method to control community noise impacts from non-transportation noise sources is through application of a Community Noise Ordinance. A Noise Ordinance is designed to protect residential areas from stationary noise sources. The noise levels encouraged by the ordinance are typical of a quiet residential area. The City will consider a new Community Noise Ordinance, as noted below in Policy 9.0L.

Guiding Policies: Noise

- 9.0a** Protect public health and welfare by eliminating existing noise problems where feasible and by preventing significant degradation of the future acoustic environment.
- 9.0b** Incorporate noise considerations into land use planning decisions.

GP Table 9.1 Noise/Land Use Compatibility Matrix								
Land Use Categories		Community Noise Equivalent Level CNEL						
Categories	Uses	< 60	65	70	75	80	85	>
RESIDENTIAL	Single Family, Duplex Multiple Family	A	C	C	C	D	D	D
RESIDENTIAL	Mobile Homes	A	C	C	C	D	D	D
COMMERCIAL Regional, District	Hotel, Motel, Transient Lodging	A	A	B	B	C	C	D
COMMERCIAL Regional, Village District, Special	Commercial Retail, Bank, Restaurant, Movie Theater	A	A	A	A	B	B	C
COMMERCIAL INDUSTRIAL INSTITUTIONAL	Office Building, Research & Dev., Professional Offices, City Office Building	A	A	A	B	B	C	D
COMMERCIAL Recreation INSTITUTIONAL Civic Center	Amphitheater, Concert Hall, Auditorium, Meeting Hall	B	B	C	C	D	D	D
COMMERCIAL Recreation	Childrens Amusement Park, Miniature Golf Course, Go-cart Track, Equestrian Center, Sports Club	A	A	A	A	B	B	B
COMMERCIAL General, Special INDUSTRIAL, INSTITUTIONAL	Automobile Service Station, Auto Dealership, Manufacturing, Warehousing, Wholesale, Utilities	A	A	A	A	B	B	B
INSTITUTIONAL General	Hospital, Church, Library, Schools Classroom	A	A	B	C	C	D	D
OPEN SPACE	Parks	A	A	A	B	C	D	D
OPEN SPACE	Golf Course, Cemeteries, Nature Centers, Wildlife Reserves, Wildlife Habitat	A	A	A	A	B	C	C
AGRICULTURE	Agriculture	A	A	A	A	A	A	A

Continued on next page

GP Table 9.1
Interpretation

ZONE A CLEARLY COMPATIBLE	Specified land use is satisfactory, based upon the assumption that any buildings involved are of normal conventional construction without any special noise insulation requirements.
ZONE B NORMALLY COMPATIBLE	New construction or development should be undertaken only after detailed analysis of the noise reduction requirements are made and needed noise insulation features in the design are determined. Conventional construction, with closed windows and fresh air supply systems or air conditioning, will normally suffice.
ZONE C NORMALLY INCOMPATIBLE	New construction or development should generally be discouraged. If new construction or development does proceed, a detailed analysis of noise reduction requirements must be made and needed noise insulation features included in the design.
ZONE D CLEARLY INCOMPATIBLE	New construction or development should generally not be undertaken.

Source: Mestre Greve Associates; Guidelines for the Preparation and Content of the Noise Element of the General Plan, prepared by the California Department of Health Services in coordination with The Governor's Office of Planning and Research. Adapted to the City of Redlands' standards.

GP Table 9.2
Interior and Exterior Noise Standards

LAND USE CATEGORIES		COMMUNITY NOISE EQUIVALENT LEVEL (CNEL)	
		ENERGY AVERAGE CNEL	
Categories	Uses	Interior ¹	Exterior ²
RESIDENTIAL	Single Family, Duplex, Multiple Family	45 ³	60
	Mobile Home	---	60 ⁴
COMMERCIAL INDUSTRIAL INSTITUTIONAL	Hotel, Motel, Transient Lodging	45	65 ⁵
	Commercial Retail, Bank Restaurant	55	---
	Office Building, Research & Development, Professional Offices, City Office Building	50	---
	Amphitheater, Concert Hall, Auditorium, Meeting Hall	45	---
	Gymnasium (Multipurpose)	50	---
	Sports Club	55	---
	Manufacturing, Warehousing, Wholesale, Utilities	60	---
	Movie Theaters	45	---
INSTITUTIONAL	Hospital, Schools classrooms	45	60
OPEN SPACE	Parks	---	60

GP Table 9.2
Interior and Exterior Noise Standards
Interpretation

- * CNEL (Community Noise Equivalent Level) - The average equivalent A-weighted sound level during a 24 hour day, obtained after addition of approximately five decibels to sound levels in the evening from 7 pm to 10 pm and ten decibels to sound levels at night after 10 pm and before 7 am.
- ¹ Indoor environment excluding bathrooms, toilets, closets, corridors.
- ² Outdoor environment limited to private yard of single family as measured at the property line; multifamily private patio or balcony which is served by a means of exit from inside; mobile home park; hospital patio; park picnic area; school playground; hotel and recreational area.
- ³ Noise level requirement with open windows, if they are used to meet natural ventilation requirement.
- ⁴ Exterior noise level should be such that interior level will not exceed 45 CNEL.
- ⁵ Except those areas affected by aircraft noise.

See also Policy 9-s.

Source: Mestre Greve Associates.

- 9.0c Support measures to reduce noise emissions by motor vehicles, aircraft, and trains.

The most efficient and effective means of controlling noise from transportation systems is reducing noise at the source. However, the City has little direct control over source noise levels because of State and federal preemption (i.e., State Motor Vehicle Noise Standards). Cooperative efforts with State and federal offices are essential.

- 9.0d Adopt and enforce a Community Noise Ordinance to control non-transportation noise impacts.

Implementing Policies: Noise

Introduction: In addition to the provisions of the following sections 9.0e through 9.0z, it is the policy of the City of Redlands that no land use adjacent to existing residential land shall generate noise in excess of the residential CNEL levels specified in Table 9.1 and Table 9.2 of this Noise Element unless appropriate mitigation measures are imposed to reduce the noise level on adjacent residential property to the standards set forth in Tables 9.1 and 9.2.

- 9.0e Use the criteria specified in GP Table 9.1 to assess the compatibility of proposed land uses with the projected noise environment, and apply the noise standards in GP Table 9.2, which prescribe interior and exterior noise standards in relation to specific land uses. Do not approve projects that would not comply with the standards in GP Table 9.2.

These tables are the primary tools which allow the City to ensure noise-integrated planning for compatibility between land uses and outdoor noise.

- 9.0f Require a noise impact evaluation based on noise measurements at the site for all projects in Noise Referral Zones (B, C, or D) as shown on GP Table 9.1 and on GP Figure 9.1 or as determined from tables in the Appendix, as part of the project review process. Should measurements indicate that unacceptable noise levels will be created or experienced, require mitigation measures based on a detailed technical study prepared by a qualified acoustical engineer (i.e., a Registered Professional Engineer in the State of California with a minimum of three years experience in acoustics).

- 9.0g Consider establishing a periodic noise monitoring program to identify progress in achieving noise abatement objectives and to perform necessary updating of the Noise Element and community noise standards.

The California Department of Health Services recommended that noise elements be updated every five years.

- 9.0h Minimize potential transportation noise through proper design of street circulation, coordination of routing, and other traffic control measures.

- 9.0i Require construction of barriers to mitigate sound emissions where necessary or where feasible, and encourage use of walls and berms to protect residential or other noise sensitive land uses that are adjacent to major roads, commercial, or industrial areas.

- 9.0j Require the inclusion of noise mitigation measures in the design of new roadway projects.

- 9.0k Ensure the effective enforcement of City, State and federal noise levels by all appropriate City departments.

- 9.0l** Adopt and enforce a new Community Noise Ordinance to mitigate noise conflicts between adjacent land uses, to ensure that City residents are not exposed to excessive noise levels from existing and new stationary noise sources, and to educate the public regarding noise issues.

A Community Noise Ordinance establishes noise limits, typical of a quiet residential area, that can not be exceeded at the property line of the noise-creating use. The types of noise to be controlled include sources such as amplified sound, street sales, animals, construction and demolition, vibration, powered model vehicles, emergency signaling devices, power tools, air conditioning, and vehicles on private property.

- 9.0m** Designate one agency or department in the City to act as the noise control coordinator, to ensure the continued operation of the City's noise enforcement efforts, and to establish and maintain coordination among the City agencies involved in noise abatement.
- 9.0n** Ensure the effective enforcement of City, State, and federal noise levels by all appropriate City departments, and provide quick response to complaints and rapid abatement of noise nuisances within the scope of the City's police power.
- 9.0o** Establish noise guidelines for City purchasing policy to take advantage of federal regulations and labeling requirements.
- 9.0p** Coordinate with the California Occupational Safety and Health Administration (Cal-OSHA) to provide information on and enforcement of occupational noise requirements within the City.
- 9.0q** Provide for continued evaluation of truck movements in the City to provide effective separation from residential or other noise sensitive land uses.
- 9.0r** Encourage the enforcement of State Motor Vehicle noise standards for cars, trucks, and motorcycles through coordination with the California Highway Patrol and Redlands Police Department.
- 9.0s** Require mitigation to ensure that indoor noise levels for residential living spaces not exceed 45 dB LDN/CNEL due to the combined effect of all exterior noise sources.

The Uniform Building Code (specifically, the California Administrative Code, Title 24, Part 6, Division T25, Chapter 1, Subchapter 1, Article 4, Sections T25-28) requires that "Interior community noise levels (CNEL/LDN) with windows closed, attributable to exterior sources shall not exceed an annual CNEL or LDN of 45 dB in any habitable room." The code requires that this standard be applied to all new hotels, motels, apartment houses and dwellings other than detached single-family dwellings.

Policy 9-s sets the maximum acceptable interior noise level at 45 CNEL. The Noise Referral Zones (65 CNEL) delineate areas within which tests to ensure compliance are to be required for new structures.

- 9.0t** Require proposed commercial projects near existing residential land use to demonstrate compliance with the Community Noise Ordinance prior to approval of the project.

- 9.0u** Require all new residential projects or replacement dwellings to be constructed near existing sources of non-transportation noise (including but not limited to commercial facilities or public parks with sports activities) to demonstrate via an acoustical study conducted by a Registered Engineer that the indoor noise levels will be consistent with the limits contained in the Community Noise Ordinance.
- 9.0v** Consider the following impacts as possibly "significant":
- ▶ An increase in exposure of four or more dB if the resulting noise level would exceed that described as clearly compatible for the affected land use, as established in GP Table 9.1 and GP Table 9.2;
 - ▶ Any increase of six dB or more, due to the potential for adverse community response.
- 9.0w** Limit hours for all construction or demolition work where site-related noise is audible beyond the site boundary.
- 9.0x** Work with Caltrans to establish sound walls along freeways where appropriate.
- 9.0y** Minimize impacts of loud trucks by requiring that maximum noise levels due to single events be controlled to 50 dB in bedrooms and 55 dB in other habitable spaces.
- 9.0z** Coordinate with the San Bernardino International Airport Authority to minimize potential noise impacts to the City of Redlands which may result from overflights as specific airport operations and flight patterns are established.

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10.0 HUMAN SERVICES ELEMENT

REDLANDS GENERAL PLAN

10.0 HUMAN SERVICES ELEMENT

Surveys for the *Redlands 2000* report (1988) revealed a need for a coordinated effort to ensure equitable distribution of human services and increase public awareness about the availability of human services. As with the rest of California, Redlands' population is becoming more diverse, the shares of old and young are increasing, and there are fewer stay-at-home mothers. There continues to be an increase in single-parent families and in teenage parents. These trends accentuate the need for effective human services for all ages to maintain a healthy community.

10.10 Human Services Coordination**Guiding Policies: Human Services Coordination**

- 10.10a** Establish a centralized organization to coordinate and direct human services provided by the public and private sectors and perform the functions listed in implementing policies below.

A coordinated effort is necessary in order to maintain or increase the quality of human services without significantly increasing the tax burden on City residents, ensure the equitable distribution of human services and increase public awareness about the availability of human services.

- 10.10b** Establish guidelines for planning, coordinating and evaluating current and proposed programs.
- 10.10c** Support processes which ensure that those who are most affected by human services programs are centrally involved in the formation, implementation and evaluation of policies.
- 10.10d** Advocate human rights and support services in the community for individuals, families, and homeless people.
- 10.10e** Provide a communications network for human services agencies.
- 10.10f** Assist community organizations in strengthening the service delivery system and encourage cooperation among the agencies to prevent unnecessary duplication of human services.
- 10.10g** Maintain a human services directory.
- 10.10h** Develop and maintain a community demographic profile to identify changing needs in the community.
- 10.10i** Educate the public about human services needs and policies.
- 10.10j** Develop a transportation network for health, nutritional and recreational needs.

Policies related to transportation may be found in Section 5, Circulation.

Implementing Policies: Human Services Coordination

- 10.10k** Evaluate and consider the creation of an Office of Human Services and Relations.
- 10.10l** Evaluate and consider the creation of a Human Services Advisory Commission.
- 10.10m** Actively pursue and utilize governmental programs which address human services needs.

10.20 Family Needs**Guiding Policies: Family Needs**

- 10.20a** Ensure that the City will consider and respect the impact that its plans, codes, regulations, and ordinances will have on the family.

It is in the interest of the City to nurture the family unit and to be aware of the effect of City policies on day care, housing, recreation, health and schools.

- 10.20b** Make the City a model for other employers by maintaining personnel policies which support the family needs of its employees.

Implementing Policies: Family Needs

- 10.20c** Develop and adopt a family policy for the City of Redlands.

- 10.20d** Develop a plan for partnership with public and private entities to ensure adequate family support programs and recreational opportunities which are affordable and accessible.

10.30 Day Care**Guiding Policies: Day Care**

- 10.30a** Integrate day care needs for children and frail elderly citizens in multigenerational settings into the planning processes of the City.

- 10.30b** Identify and seek sources of funding for child and adult day care.

- 10.30c** Assist the private sector in the development and coordination of day care for mildly ill children, handicapped family members, and dependent adults.

- 10.30d** Assist the private sector in the development and coordination of day care facilities which provide services on a 24-hour basis.

- 10.30e** Facilitate the development and acquisition of space for day care.

Implementing Policies: Day Care

- 10.30f** Develop procedures which will expedite the necessary approvals and permits required for construction of day care facilities for children and frail elderly citizens.

- 10.30g** Provide incentives to developers who include day care in their plans.

- 10.30h** Develop plans to ensure that new day care centers are located in areas of the community where service is not currently or adequately provided.

10.40 Recreation**Guiding Policy: Recreation**

10.40a Maximize the availability of recreational facilities and activities throughout the City.

- ▶ Maximize the availability of recreational facilities;

Implementing Policies: Recreation

10.40b Evaluate and strive to ensure that all areas of the community have equal access to recreational facilities and activities.

10.40c Seek partnerships with schools and private entities to provide more recreational opportunities for citizens.

10.40d Evaluate and consider expanding after-school recreation programs.

10.40e Require that the recreational needs of children and adults be addressed in development plans.

See related policies in Section 7.10, Parks and Recreational Open Space.

10.50 Health**Guiding Policies: Health**

10.50a Promote health programs for the prevention of mental and physical illness.

10.50b Assist the private sector in developing programs to help frail elderly people and the disabled to receive the types of services that foster independence and integration into the community.

Implementing Policies: Health

10.50c Establish and coordinate community-wide education programs in the areas of substance abuse, sex education and communicable diseases.

10.50d Coordinate efforts to expand free clinic services and loaned personal medical equipment.

10.50e Support the provision of nutrition services in the City.

10.50f Establish a plan to retrofit public facilities to make them accessible to the disabled.

10.60 Education**Guiding Policies: Education**

10.60a Develop and implement programs to assist youth in making successful transitions to adulthood.

10.60b Improve and increase educational opportunities for all citizens.

10.60c Utilize cable television services to the greatest extent.

10.60d Support and cooperate with the Redlands Unified School District and the University of Redlands.

See related policies in Sections 4.91 and 4.92.

Implementing Policies: Education

10.60e Provide an emergency alert system and community programming through the cable television system.

10.60f Encourage the cable television system to provide mobile broadcast capability to cover municipal functions. City Council meetings and other community events.

10.60g Expand library services in cooperation with the Redlands Unified School District.

10.60h Coordinate and assist in the environmental education program that teaches about recycling, hazardous waste, landfills, anti-littering and water conservation.

10.60i Communicate with the Redlands Unified School District to allow for an open and effective exchange of information.

Policies concerning Redlands Unified School District may be found in Section 4.91.

11.0 ECONOMIC DEVELOPMENT ELEMENT

REDLANDS GENERAL PLAN

11.0 ECONOMIC DEVELOPMENT ELEMENT

The Economic Development Element is a source of information and a statement of public policy to aid citizens, business and industrial firms, the Planning Commission, other agencies and the City staff in making their recommendations for economic development. Further, it provides a framework to assist the City Council in developing and adopting policies and actions affecting the City's economy.

Business and industry, the major sources of jobs, personal income, and tax revenues, perform vital roles in the health of any local economy. A successful business economy can expand to meet the growing employment needs of a region's population, and, through tax contributions, enables local government to provide a wider range of public services.

City governmental policies can have important direct and indirect impacts on business and industrial decisions and operations. Transportation facilities, land use regulations, building codes, and environmental regulations are a few areas which impact the business community. Because a healthy business economy is essential to the quality of life in the City of Redlands, the General Plan will attempt to set a framework where business and industry can continue to profitably operate and expand, while minimizing any adverse effects on the community.

The Economic Development Element is specifically concerned with the creation of an overall strategy to identify development potentials that will broaden and stabilize the City's economic base.

By including an Economic Development Element in a city's General Plan, the city is in a position to regulate the type of future development envisioned for the community. It also ensures that fiscal impact is and will be included in a city's long-range policy setting relating to land use, public services, population, and growth. Economic development plans cannot be separated from the assets and values of the community and its citizens. Healthy and quality economic development may well be the mechanism by which the community goals become reality and by which the quality of life in Redlands will be maintained or enhanced.

Given the average annual population rate (3.16% per year) at which the City has been growing between 1980-1990, the economic future of the City could be questionable due to diminished residential growth and the improvements and City services provided by that type of development. It is essential, therefore, that the City maintain an aggressive role in attracting new businesses and industries, as well as retaining existing ones, that can help to fill any potential economic void, while at the same time providing local employment.

Studies indicate that currently some 40 to 50 percent of the workforce commutes outside this area for employment. Bringing jobs closer to home can mean improved air quality by reducing total vehicle miles traveled. It has been established that people shop for 20 to 30 percent of their needs in the near vicinity of their workplace. It is important, therefore to expand Redlands' employment base and thereby secure a larger daytime population in the City.

City policies on economic development deal with the needs of the existing business community, efforts to attract new employers into the City and actions needed to maintain an educated and skilled labor force to meet industry needs.

Guiding Policies: Economic Development

- 11.0a** Promote a climate conducive to economic growth and rejuvenation to enhance employment and investment opportunities without sacrificing environmental standards.
- 11.0b** Seek varied, convenient, high quality office and other commercial uses appropriate to Redlands to support the projected population.

- 11.0c Adhere to sound development standards to protect the investment of existing and future commercial and industrial areas.
- 11.0d Encourage coordination and balance between economic development and all other aspects of community life.
- 11.0e Attract business and industry by providing a wide range of urban amenities and services throughout the City.
- 11.0f Establish the appropriate organizational structure for fostering balanced economic development in the City of Redlands.

Implementing Policies: Economic Development

- 11.0g Assist in the expansion and retention of existing businesses and industries.
- 11.0h Encourage and attract specific types of businesses.
- 11.0i Anticipate the demand for commercial and industrial growth and employ governmental mechanisms to maintain a choice of sites, including large parcels, as an attraction to major employers.
- 11.0j Through cooperation and support, encourage development of a labor force with skills to meet the needs of the area's businesses and industries.
- 11.0k Promote redevelopment and rehabilitation of older commercial and industrial areas to make them more efficient, accessible, aesthetically appealing, and economically viable.
- 11.0l Encourage the location of commercial centers according to function and scale of the particular development so that centers of different scales complement one another and each is accessible to the primary market it is designed to serve.
- 11.0m Discourage independent commercial development extending along street frontages characterized by multiple curb cuts, proliferation of free-standing signs, congested traffic movement, and poor design features.
- 11.0n Strengthen and coordinate the City's economic development information and share this information within the Inland Empire as part of an enhanced effort to improve the competitive positions of both the City and the region.

Industrial and business locational decisions are based in large part on information concerning individual sites (zoning, access, development process, utilities), and the region (labor force, housing, schools, amenities). To compete with other metropolitan areas, the region needs an accurate and coordinated data base to provide this information.

- 11.0o Support and assist the long-term development of Redlands Airport and promote complementary land uses surrounding the airport.
- 11.0p Support design and development of a transportation system to service the business and industrial needs of the Planning Area in order to minimize congestion and circuitous travel.

APPENDICES

REDLANDS GENERAL PLAN

APPENDIX A - GLOSSARY

Acoustical Engineer	An engineer specializing in the measurement and physical properties of sound. In environmental review, the acoustical engineer measures noise impacts of proposed projects and designs measures to reduce those impacts.
Acre-Foot	The volume of water that would cover one acre to a depth of one foot. An acre-foot is equal to 326,000 gallons, about the amount of water used each year in and around the home by an average California family.
Acre, Net	See Net Acre.
ADT	Average daily traffic, a two-directional 24-hour traffic volume.
Affordable Housing	Dwelling units for which the housing payment is not more than 30 percent of household gross income for a specified income group.
AIC	Archaeological Information Center, housed in the San Bernardino County Museum.
Airport Land Use Commission (ALUC)	The county-level body, established pursuant to the State ALUC law, responsible for developing plans for achieving land use compatibility between airports and their environs. Assembly Bill 2831, September 19, 1994, allows alternatives to the formation of an ALUC if certain conditions are met.
Alluvium	A general term for clay, silt, sand, gravel, or similar unconsolidated detrital material deposited during comparatively recent geologic time by a stream or other body of running water as a sorted or semi-sorted sediment in the bed of the stream or on its flood plain or delta, or as a cone or fan at the base of a mountain slope.
Alquist-Priolo Earthquake Fault Zones	A seismic hazard zone designated by the State of California within which specialized geologic investigations must be prepared prior to approval of certain new development.
APZ	Accident Potential Zone.
AQMP	Air Quality Management Plan.
Army Corps of Engineers	A federal agency responsible for the design and implementation of publicly-supported engineering projects; any construction activity that involves filling a watercourse, pond, lake (natural or man-made), or wetlands (including seasonal wetlands and vernal pools), may require an Army Corps permit.
Arterials	Arterials provide circulation between major activity centers and residential areas, and also provide access to freeways. They are further subdivided into two categories, major and minor arterials, as described in GP Section 5.30.
Artificial	

Groundwater Recharge	The process whereby water in an aquifer (a waterbearing stratum of permeable rock, sand, or gravel) is artificially replenished.
Avigation Easement	A recorded right to overfly a parcel granted to an airport owner.
Base Flood Elevation	The highest elevation, expressed in feet above sea level, of the level of flood waters occurring in the regulatory base flood. The base flood elevation represents the worst flooding experience in a community or an area.
Bedrock	The solid rock underlying unconsolidated surface materials.
Bike Lane	A corridor expressly reserved by markings for bicycles, existing on a street or roadway in addition to any lanes for use by motorized vehicles (Class II Bikeway).
Bike Path	A paved route not on a street or roadway, expressly reserved for bicycles. Bike paths may parallel roads but typically are separated from them by landscaping (Class I Bikeway).
Bike Route	A facility shared with motorists and identified only by signs. A bike route may or may not have pavement markings or lane stripes (Class III Bikeway).
BMR	Below Market Rate. BMR housing is subsidized to make it available to households that cannot afford current market price.
Borings	The process of making a hole in the earth and extracting material for analysis of its composition. By generalizing a finding over a wider area, it is possible to determine the relative stability of a site.
Buildout	That level of urban development characterized by full occupancy of all developable sites in accordance with the General Plan; the maximum level of development envisioned by the General Plan. Buildout does not assume that each parcel is developed to include all floor area or housing units possible under zoning regulations.
Caltrans	California Department of Transportation.
CALUP	Comprehensive Airport Land Use Plan.
Capital Improvement Program (CIP)	The multi-year scheduling of public physical improvements based on studies of fiscal resources available and the choice of specific improvements to be constructed.
CARB	California Air Resources Board.
Carbon Monoxide (CO)	An odorless, colorless gas formed by the incomplete combustion of fuels; roughly 80 percent of Bay Area CO emissions are estimated to be from motor vehicles.
CDBG	Federal Community Development Block Grant.
CDFFP	California Division of Forestry and Fire Protection.
CEQA	California Environmental Quality Act.

City	The City of Redlands.
Class I Bikeway	See Bike Path.
Class II Bikeway	See Bike Lane.
Class III Bikeway	See Bike Route.
Class I Disposal Site	Sites at which complete protection for the quality of groundwaters, surface waters, public health, and wildlife resources is provided for all time from wastes deposited therein. These sites are designated as capable of accepting for disposal Group 1, 2, and 3 wastes.
Class II Disposal Site	Sites at which protection to groundwaters, surface waters, public health, and wildlife resources is provided from Group 2 and 3 wastes.
Class III Disposal Site	Sites at which protection to water quality is provided from Group 3 wastes by location, construction, and operation which prevent erosion of deposited material.
CMP	Congestion Management Program, mandated by State Law.
CNDDDB	California Natural Diversity Data Base, Department of Fish and Game.
Collectors	Collectors have the important function of collecting traffic from residential and commercial areas and channeling it to arterials. They are typically fronted by residences, commercial, or public activities. Collectors are usually two-lane streets, and maximum acceptable volumes are dictated by resident concerns about intrusion rather than traffic capacity considerations.
Commercial Strip	A retail and service commercial area extending along an arterial street.
Community Noise Equivalent Level (CNEL)	A 24-hour energy equivalent level derived from a variety of single-noise events, with weighting factors of 5 and 10 dB applied to the evening (7:00 to 10:00 p.m.) and nighttime (10:00 p.m. to 7:00 a.m.) periods, respectively, to allow for the greater sensitivity to noise during those hours. An alternative measure is day-night average sound level (Ldn). The A-weighted average sound level for a given area (measured in decibels) during a 24-hour period with a 10dB weighting applied to nighttime sound levels. The Ldn is approximately numerically equal to the CNEL for most environmental settings.
Conservation	The management of natural resources to prevent waste, destruction, or neglect.
Critical Facility	Facilities having a vital role in a potential emergency, the failure of which might prove catastrophic.

Culvert	A drain, ditch or conduit not incorporated in a closed system that carries drainage water under a driveway, roadway, railroad, pedestrian walk or public way. Culverts are often built to channelize streams and as part of flood control systems.
Curb Cut	The opening along the curb line at which point vehicles or other wheeled forms of transportation may enter or leave the roadway. Curb cuts are essential at street corners for handicap use.
DBCP	Dibromochloropropane, a syrupy toxin added to citrus water over 30 years ago for treatment of nematodes, and banned by the EPA in 1979.
Decibel (dB)	A unit used to express the relative intensity of a sound as it is heard by the human ear. The decibel measuring scale is logarithmic. Zero (0 dB) on the scale is the lowest sound level that a normal ear can detect under very quiet ("laboratory") conditions and is referred to as the "threshold" of human hearing. On the logarithmic scale, 10 decibels are 10 times more intense, 20 decibels are 100 times more intense, and 30 decibels are 1,000 times more intense than 1 decibel. See also Decibel "A-Weighted."
Decibel "A-Weighted" (dBA)	The scale for measuring sound in decibels that weights or reduces the effects of low and high frequencies in order to simulate human hearing. See also Decibel.
DEIR	Draft Environmental Impact Report.
Density, Base	The allowable residential density range for a General Plan land use classification, excluding any density bonus.
Density Bonus	An increase in allowable density above base density granted in exchange for providing affordable or senior housing.
Density, Gross	The number of housing units on a site divided by the total developable area of the site exclusive of drainages, power transmission easements, or other public or semipublic uses, measured to the centerline of abutting streets having a right-of-way of 100 feet or less. Streets having a right-of-way exceeding 100 feet are assumed to be 100 feet wide for the purpose of density calculation. Streets, whether public or private, within a site to be developed are included within gross acreage.
Density, Net	The number of dwelling units per acre of developable residential land in a site, exclusive of public and private streets, drainage, power-transmission-line easements, or other public and semipublic uses.
Density, Transfer	The transfer of density calculated as suitable if applied to all developable portions of a site is transferred to allow development of the same number of housing units on a portion of the site with remaining site area restricted as permanent open space.
Design Review	The process whereby projects are reviewed for compliance with established design guidelines.
Development Fees	Direct charges or dedications collected on a one-time basis for a service provided or as a condition of approval being granted by the local government. The purpose of the fee or exaction must directly relate to the need created by the development. In addition, its amount must be proportional to the cost of the service or improvement. Fees can be broken down into two major classes: 1) service charges such as permit fees covering the cost of processing development plans, connection or standby fees for installing utilities or application fees for reviewing and considering development proposals; and 2) "impact"

fees levied on new development to cover the cost of infrastructure or facilities necessitated by development.

DFG	State of California, Department of Fish and Game.
DHS	State of California, Department of Health Services.
DMG	State of California, Division of Mines and Geology.
Dwelling Unit (du)	A building or portion of a building containing one or more rooms, designed for or used by one family for living or sleeping purposes, and having a separate bathroom and only one kitchen or kitchenette. See Housing Unit.
Ecotone	A transition area between two adjacent ecological communities usually exhibiting competition between organisms common to both; often a rich biological area.
Effluent	A liquid discharged as waste, such as the outflow from a sewage treatment facility or storm sewer.
EIR (Environmental Impact Report)	A report on the effect of a proposed development proposal or other major action which would significantly affect the environment. The report consists of an inventory of existing environmental conditions, projected impacts of development, and mitigation for significant adverse impacts, as required by CEQA. A General Plan EIR is necessarily more general than a site-specific EIR.
ELF	Extremely low frequency electromagnetic fields.
Endangered Species, California	A native species or sub-species of a bird, mammal, fish, amphibian, reptile, or plant, which is in serious danger of becoming extinct throughout all or a significant portion of its range, due to one or more factors, including loss in habitat, change in habitat, over-exploitation, predation, competition, or disease. The status is determined by the State Department of Fish and Game together with the State Fish and Game Commission.
Endangered Species, Federal	A species which is in danger of extinction throughout all or a significant portion of its range, other than the species of the Class Insecta determined to constitute a pest whose protection under the provisions of the 1973 Endangered Species Act, as amended, would present an overwhelming and overriding risk to humans. The status is determined by the U.S. Fish and Wildlife Service and the Department of the Interior.
EPA	Environmental Protection Agency.
Epicenter	That point on the Earth's surface which is directly above the focus of an earthquake.
Erosion	The process by which soil and rock are detached and moved by running water, wind, ice, and gravity.
EVC	East Valley Corridor.
FAR	Floor Area Ratio. The ratio between gross floor area of structures on a site and gross site area. Thus, a two-story building covering 50 percent of its site would have a FAR

of 1.0.

Fault A surface or zone of rock fracture along which there has been displacement, from a few centimeters to a few kilometers in scale.

Federal Candidate

Species, Category 1

(Candidate 1) Species for which the U.S. Fish and Wildlife Service has sufficient biological information to support a proposal to list as Endangered or Threatened.

Federal Candidate

Species, Category 2

(Candidate 2) Species for which existing information indicates that these species may warrant listing, but for which substantial biological information to support a proposed rule is lacking.

Federal Flood

Insurance

Affordable flood insurance offered by the federal government to property owners whose communities participate in the National Flood Insurance Program. Redlands is a participant.

FEIR

Final Environmental Impact Report.

FEMA

Federal Emergency Management Agency.

500-year flood A flood which has a 0.2 percent chance of occurrence in any given year.

Floor Area, Gross

The total horizontal area in square feet of all floors within the exterior walls of a building, but not including the area of unroofed inner courts or shaft enclosures.

Freeways

Freeways are high speed, high capacity limited access facilities serving intercity and regional travel.

General Plan

A comprehensive, long-term plan mandated by State Planning Law for the physical development of a city or county and any land outside its boundaries which, in its judgment, bears relation to its planning. The plan shall consist of seven required elements: land use, circulation, open space, conservation, housing, safety, and noise. The plan must include a statement of development policies and a diagram or diagrams illustrating the policies.

Greenhouse Effect

The gradual warming of the Earth's atmosphere attributed to the accumulation of gases caused by industrial and agricultural activities. Associated phenomena include the melting of the polar ice caps and rising sea levels.

Group 1 Wastes

Consist of or contain toxic substances and substances which could significantly impair the quality of usable waters. Examples are acids, alkalies, pesticides, and chemical toilet wastes.

Group 2 Wastes	Consist of or contain chemically or biologically decomposable material, which does not include toxic substances nor those capable of significantly impairing the quality of usable waters. Examples are garbage, rubbish, street refuse, dead animals, and agricultural crop residues.
Group 3 Wastes	Consist entirely of nonwater soluble, nondecomposable inert solids. Examples are dirt, rock, concrete, and asphalt.
Guiding Policies	The City's statements of its goals and philosophy.
Habitat	The natural environment of a plant or animal.
Hardscape	Rigid portions of the urban landscape, including the surfaces of streets and sidewalks, structures, and underground utilities.
Hazardous Waste	Waste which requires special handling to avoid illness or injury to persons or damage to property. Includes, but is not limited to, inorganic mineral acids of sulfur, fluorine, chlorine, nitrogen, chromium, phosphorous, selenium and arsenic and their common salts; lead, nickel, and mercury and their inorganic salts or metallo-organic derivatives; coal, tar acids such as phenol and cresols and their salts; and all radioactive materials.
High Occupancy Vehicle Lanes (HOV)	Traffic lanes that are permanently or periodically restricted by law to vehicles with two, three, or more occupants.
Historic and Scenic District	A significant neighborhood, agricultural or passive recreational open space, enclave or collection of historical buildings that may have been part of one settlement, architectural period, or era of development.
Historic or Scenic Thematic Collection	A historic or scenic thematic collection is a collection of significant sites or buildings which are not necessarily located together in the same geographical area, but are linked by a historical or architectural theme.
Historic Property	A historic property is a structure or site that has significant historic, architectural, or cultural value.
Household	Person or persons living in one dwelling unit.
Housing Payment	For ownership housing, this is defined as the mortgage payment, property taxes, insurance and utilities. For rental housing this is defined as rent and utilities.
Housing Unit, Multifamily	A dwelling unit in a structure designed and/or used to house three or more families living independently of each other.
Housing Unit, Single Family Detached	A dwelling unit that is structurally independent from any other residential unit.

Housing Unit, Single Family Attached	A dwelling unit that is separated from one or more adjoining dwelling units by a structural wall extending from ground level to the roof and having a separate heating system. This housing type includes duplexes, triplexes, townhouses, and condominiums. (This definition is adapted from the U.S. Census.)
Implementing Policies	The City's statements of its commitments to consistent actions.
Impervious Surface	Any material which reduces or prevents absorption of water into land.
Income, Above-Moderate	A household whose income exceeds 120 percent of the county median.
Income, Low	A household whose income does not exceed 80 percent of the county median.
Income, Median	The county-wide median income for a four-person household, as defined by the United States Department of Housing and Urban Development and the California Department of Housing and Community Development.
Income, Moderate	A household whose income is between 81 and 120 percent of the median family income for the county.
Income, Very-Low	A household whose income does not exceed 50 percent of the median family income for the county.
Infill	The development of new housing or other buildings on scattered vacant lots in a built-up area or on new building parcels created by permitted lot splits.
Inversion	Temperature inversions limit the amount of vertical mixing of air and thus trap pollutants in the lower atmosphere where people breathe. Inversions are characterized by a layer of warmer air above a layer of cooler air, a reversal of the normal decline in temperature with increasing altitude.
Jobs-Housing Balance	A ratio used to describe the adequacy of the housing supply within a defined area to meet the needs of persons working within the same area. The General Plan uses SCAG's definition which is a job total equal to 1.2 times the number of housing units within the area under consideration.
Landmark	Defined as a building, site, or area with exceptional character or exceptional historic or aesthetic interest or value as part of the development, heritage, or cultural characteristics of the City, State, or Nation.
Landslide	The downslope movement of soil and rock.
Leachate	A solution obtained by leaching; e.g., water that has percolated through soil containing soluble substances and that contains certain amounts of substances in solution.
Liquefaction	A sudden large decrease in the shearing resistance of a cohesionless soil, caused by a collapse of the structure by shock or strain, and associated with a sudden but temporary increase of the pore fluid pressure.

Local Streets	Local streets have the sole function of providing access to adjoining land uses. All streets not depicted on the circulation plan are local streets.
LOS	Traffic Level of Service calculated on the basis of a volume-to-capacity ratio of an intersection.
MEA	Master Environmental Assessment.
Measure N/ Proposition R	Redlands' initiative Measure N, passed in November 1987, is a zoning ordinance amending Proposition R, which purports to set specific limits on residential density and the rate of residential growth in Redlands. As amended by Measure N, Proposition R, a zoning ordinance, allows a maximum 400 dwelling units to be added to the City each year, with no carry-over for unused allocation. Up to 50 of the units are to be single-family homes on existing lots, with the remainder to be allocated according to a point system. Sewer or water service may be extended to an additional 150 units per year (no carry-over) within the Sphere of Influence, consistent with the City's General Plan. No land designated by the current General Plan as urban reserve is to be redesignated for a higher density than one dwelling unit per 14,000 square feet of net site area, except by a four-fifths vote of the City Council with findings. The City must prepare a plan for the ultimate development of the Sphere of Influence and may approve annexations only if they are consistent with the Plan.
Mitigation	A specific action taken to reduce environmental impacts. Mitigation measures are required as a component of an environmental impact report (EIR) if significant impacts are identified.
MRZ	Mineral Resource Zone.
Net Acre	(See also Density, Net.) As used to calculate Floor Area Ratio (FAR), the area of a lot exclusive of land used or to be used for public or private streets or other rights-of-way, and land restricted to open space use by means other than transfer of FAR.
Nitrogen Dioxide (NO2)	A reddish brown gas that is a byproduct of the combustion process and is a key to the ozone production process.
Noise Contour(s)	Isolines (a line on a map or chart along which there is a constant value) representing noise, measured in decibels. See also Community Noise Equivalent Level.
Non-point Source	A pollutant source introduced from dispersed points and lacking a single, identifiable origin. Examples include automobile emissions or urban run-off.
NPSC Program	Non-point source control program.
Omnitrans	The transit agency which serves the SANBAG area, including the City of Redlands.
100-year Flood	That flood event which has a 1-percent chance of occurrence in any one year.
Open Space	Any parcel or area of land or water devoted or committed to an open-space use as defined in the General Plan.
Oxidant	The production of photochemical reactions in the atmosphere between reactive organic gases and oxides of nitrogen.
Ozone	An oxidant, O3, that makes up the largest single portion of smog.

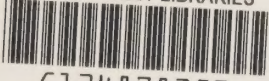
Parcel	A lot or tract of land.
Particulate Matter	Minute, separate airborne solid or liquid particles including smoke, dust, aerosols, metallic oxides, and pollen.
PCB	Polychlorinated biphenyl, a highly toxic, petroleum-based compound used in the past as an insulating and lubricating product.
Peak Hour Traffic	The number of vehicles passing over a designated section of a street during the busiest one-hour period during a 24-hour period.
Planning Sector	The Redlands Planning Area is divided into seven planning sectors to facilitate description. Planning sectors are aggregations of the 73 Traffic Area Zones (TAZs), and are shown on GP Figure 1.4.
Point Source	A source of pollutants which may be traced to a point of emissions.
Population Holding Capacity	The population that would result if all vacant land designated for residential use within the City were built at the average density for the designated General Plan density category.
Proposition R	See "Measure N"
Reclaimed Wastewater	Treated sewage or excess irrigation water with chlorine or other chemical disinfectants added.
Response Time	The amount of time for an emergency services response, measured from the time of the distress call until arrival on the scene.
Retention Area	A pond, pool, lagoon, or detention basin used for the storage of water runoff.
Right-of-Way	A strip of land acquired by reservation, dedication, forced dedication, prescription or condemnation, and intended to be occupied or actually occupied by a road, crosswalk, railroad, electric transmission lines, oil or gas pipeline, water line, sanitary storm sewer or other similar use.
Riparian Habitat	Land and plants bordering a water course.
RIVSAN	Riverside-San Bernardino County traffic model.
RWQCB	Regional Water Quality Control Board.
SANBAG	San Bernardino Associated Governments.
SBCAPCD	San Bernardino County Air Pollution Control District.
SBVMWD	San Bernardino Valley Municipal Water District.
SCAG	Southern California Association of Governments.
SCAQMD	South Coast Air Quality Management District.

SCS	United States Department of Agriculture, Soil Conservation Service.
Seiche	Oscillation of the surface of an enclosed body of water owing to earthquake shaking.
Sensitive Receptors	Members of the population who are most sensitive to air quality include children, the elderly, the acutely ill, and the chronically ill. The term "sensitive receptors" can also refer to the land use categories where these people live or spend a significant amount of time. Such areas include residences, schools, playgrounds, child care centers, hospitals, retirement homes, and convalescent homes.
Siltation	The process of silt deposition. Silt is a loose sedimentary material composed of finely divided particles of soil or rock, often carried in cloudy suspension in water.
SMARA	Surface Mining and Reclamation Act of 1975.
Solid Waste	Unwanted or discarded material, including garbage, with insufficient liquid content to be free flowing.
Specific Plan	A detailed plan that includes the text and maps or diagrams generally specifying the following for a portion of the area covered by the General Plan: 1. Land use; 2. Distribution, location, and extent and intensity of major components of public and private transportation, sewage, water, drainage, solid waste disposal, energy, and +other essential facilities; 3. Standards and criteria by which development will proceed; and 4. A program of implementation measures including regulations, programs, public-works projects, and financing measures. A specific plan must be consistent with the General Plan.
SSZ	Special Studies Zones, as defined under the Alquist-Priolo Special Studies Zone Act, 1973.
Subdivision	The division of a lot, tract, or parcel of land into two or more lots, tracts, parcels, or other divisions of land for sale, development, or lease.
Subsidence	The gradual sinking of land as a result of natural or man-made causes.
Substrate; Substratum	The material of which something is made and from which it derives its special qualities.
SWP	State Water Project.
TAZ	Traffic Analysis Zone. Data units used for land use and traffic analysis.
TCE	Trichloroethylene, an organic compound formerly used as an industrial solvent and heat-transfer medium.
TDM	Travel demand management.
The "Project"	In the EIR, the "Project" is "buildout in accord with Redlands General Plan."

The "No Project" Alternative	In the EIR, the "No Project" alternative evaluates existing conditions in the City.
Threatened Species, California	A native species or sub-species of a bird, mammal, fish, amphibian, reptile, or plant that, although not currently threatened with extinction, is likely to become an endangered species in the foreseeable future in the absence of special protection and management efforts required by Chapter 1.5 of the State Department of Fish and Game Code.
Threatened Species, Federal	A species which is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range.
Transit	Public transportation provided by van, bus, or rail vehicle.
Trip	A one-way journey that proceeds from one origin to one destination. Each trip has two trip ends.
Trip-Generation Rate	The number of vehicle trips per acre, per 1,000 square feet of floor area, per housing unit or other unit of measure during a stated period. Measured trip-generation rates are used to project the impact of development on the traffic circulation system and as a basis for regulating the intensity of development.
TSM	Transportation Systems Management measures to reduce the number of single-occupant vehicle trips during peak hours.
Urban Conservation District	An urban conservation district is a residential or commercial neighborhood which meets the designation criteria, but contains a significant proportion of non-historic properties, and which the City wishes to maintain and revitalize.
USDA	United States Department of Agriculture.
USFS	United States Fish and Wildlife Service.
USGS	United States Geological Survey.
USGS Quadrangles	A U.S. Geological Survey-produced map showing natural and cultural features for an area extending across 15 minutes of longitude and 7.5 minutes of latitude.
Volume to Capacity (V/C) Ratio	A measure of the operating capacity of a roadway or intersection, in terms of the number of vehicles passing through, divided by the number of vehicles that theoretically could pass through when the roadway or intersection is operating at its designed capacity.
Waste Stream	All solid, semisolid and liquid wastes including garbage, refuse, paper, rubbish, ashes, industrial wastes, demolition and construction wastes, abandoned vehicles and parts thereof, discarded home and industrial appliances, manure, vegetable or animal solid and semisolid wastes.

Waterway	A natural waterway can support its own environment of vegetation, fowl, fish, and reptiles, and appears natural.
Wetlands	Transitional areas between terrestrial and aquatic systems, where the water table is usually at or near the surface, or the land is covered by shallow water. Under a unified methodology now used by Federal agencies, wetlands are defined as "those areas meeting certain criteria for hydrology, vegetation, and soils."
Williamson Act	Known formally as the <i>California Land Conservation Act of 1965</i> , it was designed as an incentive to retain prime agricultural land and open space in agricultural use, thereby slowing its conversion to urban and suburban development. The program entails a ten-year contract between the City or County and an owner of land whereby the land is taxed on the basis of its agricultural use rather than its market value. The land becomes subject to certain enforceable restrictions, and certain conditions need to be met prior to approval of an agreement.
Xeric	Vegetation requiring only a small amount of moisture.
Zanja	Known locally as the "Sankee," this canal was excavated by Native Americans in the 19th century, under the direction of missionaries. The channel receives water from Mill Creek and traverses the City of Redlands.
Zoning District	A specifically delineated area on a zoning map within which regulations and requirements uniformly govern the use, placement, spacing, and size of buildings, open spaces, and other facilities.
Zoning Ordinance	The City ordinance which divides Redlands into districts and establishes regulations governing the use, placement, spacing, and size of buildings, open spaces, and other facilities.

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